

SIERRA LEONE

ANNUAL REPORT of the Medical and Health Services for the Year 1952

Price-2s.

FREETOWN

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CORRIGENDA

Under "A 35, 094 Rabies" the "1" should be deleted and the figures of 2 (under "A 34, 092 Infectious Hepatitis") amended to 3.

2. Page 24 should follow immediately after "Medical Officer Health" (under "Post Mortem") on Page 22.



ANNUAL REPORT of the Medical and Health Services for the Year 1952

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Annual Report of the Medical and Health Services for the Year 1952

1—GENERAL REVIEW

During the past year there has been an increasing demand for all services and although the curative is the more popular, the importance of preventive measures is slowly being realised. As practical examples of the latter there is no reluctance amongst the population (except in a very few areas) to receive the prophylactic pentamidine injection against sleeping sickness, and there is a slowly increasing demand for town planning and a greater demand for improved water supplies.

- 2. It appears to be necessary to inform the public of the limiting factors which prevent the expansion of these services. Both curative and health measures ultimately bring their rewards by reducing the incidence of ill-health, increasing the birthrate and by the prolongation of the span of life and eventually can assist in increasing the wealth of the country. But the immediate problem, which presents itself prior to the consideration of any extension, is finance. Both curative and preventive measures cost money. Curative treatment requires the building of hospitals and clinics. It is necessary to recruit and train staff for these buildings. Equipment has to be purchased to furnish the buildings. After this initial outlay, a recurrent expense is incurred in the yearly replenishment of drugs, the salaries of the staff, the feeding of the in-patients and the replacement of wornout equipment. Whenever increased facilities are being considered, the yearly recurrent expense should not be forgotten.
- 3. Although in the United Kingdom over £8 per head of population is available to meet the cost of the National Health Service the demand for beds exceeds the supply. In this territory in 1952 the allocation for the Medical and Health Services was approximately £342,000, excluding expenditure under the Colonial Development and Welfare Scheme, for a population of 2,000,000. This allows a little over 3s. per head of the population. The increase in the estimates for this department has risen from £90,000 in 1939 to £342,000 in 1952. Even without any further expansion of the service, costs will continue to rise. This is due to the discovery of new drugs, drugs which are curative and specific for diseases which previously proved fatal or incurable. From the figures given it is obviously impossible to provide hospital accommodation for all the inhabitants of this country. Nor is this essential when many of the diseases for which patients seek in-patient treatment can be prevented, and treatment of these and other conditions can often only be regarded as palliative.
- 4. In order to obtain an improvement in the general health of the community expansion of the curative service should not alone be considered. It is more economical and of more lasting benefit to adopt preventive measures. Better housing in approved lay-outs of towns and the health education of the public and in particular of the school children are within the economic resources of every country. Health education should consist of hygiene, housing, preparation of foods and the production of foods. Ignorance of simple facts associated with poverty also results in diseases which can be prevented.
- 5. Smallpox and Sleeping sickness were formerly widespread and prevalent in this country. The latter is now well controlled in most areas but supervision will still have to be exercised for many years. The incidence of smallpox has been greatly reduced by the mass vaccination campaign which took place some years ago, but re-vaccination is essential if the incidence is not to rise and epidemics occur. Improved sanitation would result in a very great reduction in the all too prevalent intestinal diseases. Treatment of the latter can only be palliative when patients return to their old environment from which they received their infections, and Community diseases, which are prevalent and costly to treat, could be reduced and eventually prevented by education.

1 Keeper

1 Matron

6. To improve the economy of the country health must be regarded as a highly important factor. Widespread infectious diseases must be reduced to a minimum and eventually eradicated, not necessarily by individual treatment, but by mass treatment by travelling teams which will also employ preventative means. Other widespread diseases due to ignorance of elementary hygiene will require a different treatment. Education of the population will first have to be undertaken, accompanied by measures to remedy the existing sanitary defects. Hospitals are not necessary to treat patients suffering from many of these preventable diseases and preventative measures should be instituted as early as the economy of the country will allow.

2—ADMINISTRATION

7. Dr. E. A. Renner, O.B.E., was promoted to Director and Dr. A. J. Johnson, Dr. T. P. Eddy and Dr. H. M. S. Boardman were promoted to Deputy Director, Assistant Director and Senior Medical Officer respectively. No member of the Senior Service was transferred and only one Medical Officer resigned.

enior	Service was transferred and only one	e M	edical Officer resigned.
8.	ESTABLISHM	MEN	Γ
	Administra	tion	
1	Director Deputy Director Assistant Director Administrative Secretary	2	Chief Clerk First Grade Clerks Second and Third Grade Clerks
	General		
1	Senior Specialist Specialist Senior Medical Officers (Health)	28	Senior Medical Officer Medical Officers (including Lady Medical Officer and Medical Officer of Health) Medical Officers—Endemic Diseases
			Control Unit
2	Nursing Sistan	1	Consider to the C. M. In C.
	Senior Nursing Sisters Sister Tutor		Superintendent of Midwifery Midwives
	Nursing Sisters		Student Midwives
2	Staff Nurses Grade I		Linen Store Supervisor
	Staff Nurses Grade II		Laundry Supervisor
	Nurses Student Nurses		Health Visitor, Grade I
	Matron's Assistant		Health Visitors, Grade II Health Visitors, Grade III
1	Senior Surgical Assistant Surgical Assistant		Midwife Health Visitors
2	Laborat	tory	
	Senior Pathologist	4	
	Pathologist Laboratory Superintendent		Laboratory Assistant, Grade I Laboratory Assistant, Grade II
1	Laboratory Superintendent		Laboratory Assistants, Grade III
			Laboratory Assistants-in-training
	Pharmaceut	ical	
1	Chief Dispenser	6	Dispensers, Grade I
2	Senior Dispensers	18	Dispensers, Grade II
		26	Dispensers, Grade III
	Radiological		
5	Radiographers	3	Attendants-in-training
4	Dental Officers	1	Dontal Machania
3	Dental Officers Mental	1	Dental Mechanic
. 4	Tr	4	C Au

1 Senior Attendant

45 Attendants

Health

Chief Sanitary Superintendents
 Malaria Superintendent
 Entomologist
 Sanitary Inspectors, Grade II
 Sanitary Inspectors, Grade III
 Sanitary Superintendents
 Entomologist Assistants
 Sanitary Inspectors, Grade III
 Sanitary Inspectors, Grade III
 Malaria Inspectors

Medical Stores

1 Medical Storekeeper and Inspecting Pharmacist

1 Assistant Medical Storekeeper and Inspecting Pharmacist Store Assistant, Grade I
 Store Assistants, Grade II

13 Store Issuers

Endemic Diseases Control Unit

1 Senior Attendant, Class I

12 Attendants, Class I

12 Senior Attendants, Class II

35 Attendants, Class II and Learners

Transport

1 Foreman Driver1 Motor Mechanic

3 Senior Drivers

24 Drivers

Miscellaneous

Stokers, Cooks, Porters, Ward Attendants, Messengers, Packers, Telephone Operators, Sewing Maids, Mosquito Spotters, Court Messengers, etc.

- 9. Early in the year two Medical Officers joined the Service and with the assistance of temporary Medical Officers, the establishment, for the first time for many years, was complete except for a Pathologist. It was thus possible to re-open Kabala as a Medical Officer station and all the hospitals have been staffed with Medical Officers this year. Three Medical Officers were attached to the Endemic Diseases Control Unit until the last quarter of the year when it was necessary to transfer one to take charge of a hospital. In spite of the apparently very satisfactory position, a note of caution is necessary. The advent of the antibiotics is affording greater scope in treatment and the attendances of patients are increasing, the staff, though larger, had to meet greater demands. Many of the Medical Officers arrived within a few months of each other and therefore are due to go on leave at approximately the same time. Three Non-expatriate Medical Officers are attending postgraduate courses in order to obtain higher diplomas. Thus there are difficulties ahead in the coming year if all the hospitals are to be staffed with Medical Officers and there are already difficulties in staffing the two largest hospitals adequately. No Pathologist has been recruited and on the departure on leave of the Senior Pathologist the most senior of the Laboratory Assistants was left in charge and has acted as the Laboratory Superintendent. The department has so far failed to recruit sufficient Sanitary Inspectors but the response to the recruitment of Nurses has improved. Infectious Diseases Nurses have been recruited to nurse patients suffering from tuberculosis.
- 10. During the year two new ambulances were donated to the department by the Sierra Leone Branch of the British Red Cross Society. One was stationed in the Protectorate and the other in Freetown for services in the rural areas.

A further two new ambulances provided by Government for Makeni and Port Loko (Sierra Leone Protectorate) were handed over to the department in December

11.	Finance:—			£	s.	d.
	Personal Emoluments		• •	 140,534	, 9	10
	Other Charges	• •	• •	 195,419	5	3
	TOTAL		• •	 £335,953	15	6

12. In addition the following sums were expended under the Colonial Development and Welfare Act:-

Control of Endemic Diseases (D. 1049)	15,253	7	4
Health Centres Colony (D. 1641)	9,130 £36,701	5	1

3---POLICY

- 13. The Service, as stated last year, is handicapped by the lack of officers of experience, and difficulty is experienced in planning new projects with staff who are already faced with more than whole time routine duties. It has however been possible to tuberculin test a greater number of the school children in Freetown and offer B.C.G. vaccine to those who gave negative response.
- 14. A report was received from Mr. Williamson of the United States of America Health Services, who visited Freetown in 1951 under Economic Co-operation Administrative Technical Assistance. From this report it appears that the value of the canalisation of the streams in Freetown as an anti-malarial measure would be off-set by the enormous expense such an undertaking would necessitate and that the replacement of larvicidal by imagocidal measures would be more efficient and cheaper. Careful consideration has been given to residual spraying and three areas in the Colony were so treated. A further extension of this method of control is contemplated with UNICEF assistance.
- 15. Patients suffering from leprosy were tending to collect in two towns in which Mission Hospitals were situated and where it was known that the sulphones were available. A public health problem was thus being created owing to congestion and over-crowding. Widespread publicity was subsequently given to the fact that the sulphones were available at all Government hospitals and dispensaries and Medical Officers were provided with recent literature concerning the treatment of leprosy by "Avlosulfon." It is hoped that lepers will report in future to the nearest institution and, after realising the advances made in the treatment of this disease, will spread the information to other patients. It will then be possible to guage the incidence of leprosy in this territory and offer treatment to those afflicted.
- 16. Mass treatment of yaws has been continued in the Northern Province and eighteen Chiefdoms have now been treated. The arsenicals have been used but it is hoped that in the future this campaign will be able to use penicillin and that UNICEF may assist.
- 17. Dr. Elmer G. Berry, under the auspices of Economic Co-operation Administrative Technical Assistance, made a widespread inspection of this territory to discover the incidence of bilharzia. It is realised that the eradication of the intermediate host is essential and it is hoped that in the following year the use of sodium Pentachloro phenate will be successful.
- 18. The following distinguished visitors gave valuable advice during their stay in Sierra Leone:—

Dr. J. C. R. Buchanan, C.M.G., M.D., F.R.C.P., Principal Medical Officer, Colonial Office.

Professor W. I. C. Morris, M.B., F.R.C.S., Professor of Obstetrics, University of Manchester.

Dr. R. Lees, M.D., F.R.C.P., Consultant Venereologist, Manchester University.

Dr. Elmer G. Berry, Senior Scientist, United States of America.

Professor B. G. Maegraith, Dean of the Liverpool School of Tropical Medicine.

Dr. C. A. Egger, Director for Europe and Near East, UNICEF.

Dr. Marti, UNICEF.

Dr. Mara, World Health Organisation.

In co-operation with the Government of Nigeria Dr. M. P. Hutchinson, Research Epidemiologist, W.A.I.T.R. visited this territory, similarly Dr. Gleize from Liberia visited the Endemic Diseases Control Unit at Kailahun.

- 19. Further improvements of the conditions of service of members of the Junior Staff were provided for in the 1953 estimates. Dispensers and Nurses have greater opportunities for promotion and, the Male attendents at Kissy Mental Hospital will be given better conditions of service in 1953. Provision is also made for an Examiner of Stores and a Registrar of Births and Deaths for Freetown. Both are new appointments.
- 20. Encouragement has been given to officers to obtain further experience. Three non-expatriate officers have been granted study leave in order to attend courses for the D.P.H., M.R.C.P. and F.R.C.S. respectively. One officer attended the World Health Organisation Fellowship course in Malaria in Nigeria and a further officer represented this territory at a "Centre inter-national de l'enfance" at Brazzaville.

4—DEVELOPMENT

- 21. Under a Colonial Development and Welfare Scheme three Health Centres were completed at Makali, Sumbuya and Kambia and two are under construction at Pendembu and Daru. Plans have been prepared for hospitals at Woama, Magburaka, Kenema and Lungi and the plan for the tuberculosis hospital at Murray Town is under consideration.
 - 22. No staff has been appointed to the Sir Alfred Jones Laboratory.
- 23. A review of the training of the staff for the Native Administration Health centres is to be made. Seven Sanitary Overseers attended a refresher course and fourteen are undergoing training.

5—LEGISLATION

24. The following were enacted during the year:—

Public Notice No. 55/1952—The Public Health (Protectorate Ordinance)—Cap. 191.

Public Notice No. 56/1952—The Public Health (Protectorate Ordinance)—

Public Notice No. 83/1952—The Dogs Ordinance—Cap. 67.

Public Notice No. 92/1952—The Public Health (Protectorate Ordinance)—Cap. 191.

Ordinance 28/1952—An Ordinance to amend the Medical Practitioners and Dentists and Druggists Ordinance—Cap. 139.

6---VITAL STATISTICS

25. The registration of births and deaths in Freetown and in the Colony is compulsory. The following tables give comparative statements:—

BIRTHS AND DEATHS—FREETOWN AND COLONY

		BIRTHS								•
		19	950		1951			19	1952	
District		M.	F.	Total	M.	F.	Total	M.	F.	Total
Freetown		1,290	1,270	2,560	1,346	1,314	2,660	1,370	1,279	2,649
Rest of Colony	• •	919	874	1,793	929	872	1,801	938	948	1,886
Total		2,209	2,144	4,353	2,275	2,186	4,461	2,308	2,227	4,535
	_				DE	ATHS				
	-	19	950		DE.			19	952	
District		19 M .		Total			Total	19 M .		Total
	1 0		F.	<i>Total</i> 1,490	19	951 F.	<i>Total</i> 1,414	M.	F.	<i>Total</i> 1,581
District Freetown Rest of Colony	, .	M.	F. 658		19 M .	951 F. 656		M. 865	F. 716	

26. Infant Mortality:—Out of 2,649 live births in Freetown, 378 deaths under one year were registered, giving an Infant Mortality rate of 143 per 1,000.

The figures for the past seven years are:—

1946	1947	1948	1949	1950	1951	1952
208	182	159	158	148	119	143

Of the 378 deaths under one year 60.5 per cent died during the first month of life.

27. Registration in the Protectorate remained voluntary except for the compulsory registration in six Chiefdoms and they have now completed their second year of compulsory registration. The figures for the registration of births and deaths in these Chiefdoms are:—

					BIRT	гнѕ		DEA	THS	
Chiefdor	ms				M.	F.	Total	M.	F.	Total
Nongowa					310	355	665	305	293	598
Kaiyamba					25	37	62	20	23	43
Nimi Koro		• •	• •		30	28	58	41	22	63
Jawi			• •		51	48	99	67	32	99
Magbema		• •		• •	91	97	188	28	30	58
Jong	• •	• •	• •	•	88	137	22.5	90	84	174
			TOTAL		595	702	1,297	551	484	1,035

Registration has been irregular in all these Chiefdoms with the possible exception of Nongowa. The Registrar in Kaiyamba Chiefdom has often been away on other duties and during his absence registration was not performed. Jawi Chiefdom sent no returns for November and Nimi Koro Chiefdom reported no death in January.

28. In the remainder of the Protectorate the following births and deaths were registered:—

I	BIRTHS		DEATHS				
M.	F.	Total	M.	F.	Total		
2,019	1,800	3,819	1,240	1,094	2,334		

7--PUBLIC HEALTH

- 29. There have been no new innovations during the year. The investigation of bilharzia continues, the tuberculin testing of school children progressed and publicity was given to the fact that supplies of 'Sulphones' were available at all Government institutions for the treatment of leprosy. The incidence of smallpox remains low and there was no epidemic of cerebro-spinal meningitis.
- 30. The health of the population has remained fairly satisfactory considering the prevailing conditions. It is necessary to quote from the 1951 Annual Report which reads as follows.—
 - "The socio-economic conditions however remain a problem. Until the standard of general living conditions can be raised, with especial reference to purer water supplies, night soil disposal, surface drainage of Freetown, improved housing and a better knowledge of the full untilisation of the local foods, the incidence of the intestinal diseases will not be reduced nor the general health improved, with the abolition of the polyavitaminosis and malnutrition."
- 31. Attention has been given to the prevention of tuberculosis and all new entrants to the nursing service have been tuberculin tested and negative reactors have been offered vaccination with B.C.G. Tuberculin testing of children has continued, Professor Heaf's multiple puncture test having now replaced the jelly test. During the year 2,875 school children were tested, 82 school-teachers, 44 student

nurses and a number of sanitary labourers in Freetown. One village school in the Colony was tested and also schools at Makeni and Magburaka in the Protectorate. It is planned to develop testing in the Protectorate as equipment becomes available in 1953. With the small numbers so far tested outside Freetown comparisons are uncertain, but it appears that though the crude percentage of positive reactors elsewhere is much the same as in Freetown, the intensity of reactions is less. Of 542 out of a total of 1,311 negatively reacting children whose parents have so far b9en offered vaccination, 508 presented themselves and were vaccinated. It is to ebe feared that in spite of considerable publicity, most people imagine that the tuberculin test is a vaccination against tuberculosis. Once the survey has been made it will probably be advisable to concentrate vaccination on young children and school entrants.

- 32. Samples from the Freetown treated water supply were taken almost daily. 334 samples were examined and of these 20 were unsatisfactory.
- 33. The housing conditions in Freetown show no improvement and in some areas there is a deterioration. The public Health legislation at present in force was drafted many years ago and new legislation is now required to meet with present conditions. Some property owners are rebuilding better planned houses and shops in permanent materials and, to avoid storm water from higher ground flooding their land during the rains, are building substantial walls. These act as effective dams and flood other property on the higher ground. An owner of property is unable to drain his land and carry the storm water through another person's property except by mutual arrangement thus under the existing legislation householders are unprotected against annual water-logging and in some instance actual flooding of their land.
- 34. There is an increasing demand for cooked foods, ice cream and mineral waters but, except in a few instances, the premises in which they are prepared cannot be suitably converted for the purpose. In the absence of suitable Legislation there can be no control over these industries except by appealing to the goodwill of the owners of the businesses. The conditions under which some of these commodities are prepared can only be described as appalling and consideration is being given to introduce legislation to control the preparation and sale of ice cream.
- 35. The Deep Water Quay is nearing completion and the danger of the introduction of plague is fully realised. Effective measures to reduce the local rat population and to prevent the importation of plague have been given consideration, and special measures are to be adopted. It is hoped to recruit an expatriate officer who has had experience of rodent control with particular reference to shipping and he will train a local officer. It has been arranged for an officer on the establishment, whilst on leave, to attend a course of instruction on rodent control.
- 36. The Lakka Infectious Diseases Hospital was kept in readiness for the reception of quarantinable diseases, but none occurred.

8—ENDEMIC DISEASES

- 37. Malaria.—The Malaria Control Unit is in charge of the anti-malarial work in Freetown and its environs. In the Protectorate anti-malarial work remained confined to swamp drainage and canalisation in the vicinity of the larger towns. Throughout the year 38,003 patients, of whom 59 died, were treated at Government hospitals and dispensaries. The figures for 1951 were 31,796 cases and 33 deaths. In addition four cases of Blackwater fever with one death were recorded among Africans.
- 38. The Unit continued their temporary larvicidal control measures using a D.D.T. emulsion. During the rains a mobile gang of between ten and twenty oilers augmented control in all areas.
- 39. Imagocidal measures were confined to the experimental treatment of the internal surfaces of houses with Gamexane water-dispersible powder and this played a prominent part in the control programme. Groups of houses were chosen in area

in which the control houses in the past showed high room density indices. The application of insecticide (6.5 per cent gamma isomer, diluent kaolin) was carried out effectively by means of "Vermorel" lime washing machines, which incorporated a vertical moving paddle, through a conical spray nozzle at an average deposit of 10 mgms, per sq. ft. No chemical analysis was made of the deposit and the estimate was based on an average house receiving a defined volume of fluid. In the urban areas between 2,000 and 2,500 houses lying between the Granville Brook and the Congo River were sprayed once between May and June. This represented approximately 20 per cent of the houses in the area. No houses were treated in the City Central and West Area. In the rural areas houses in the following villages received treatment by residual spraying:—

Village Treated Lungi Airport and surrounding villages May and October May and October Wellington May and October Kissy Lumley April and July Cockerill ... April and October April and July Aberdeen ... April and July Levuma Pendembu (near Goderich) ... April and July

40. The permanent control measures were concerned with the Wellington and the Aberdeen polders. In the former, Anopheline production from the untreated bunded area remained low. The seepages and water holes fringing the polder were brought under larval control as was the village itself. The Bund gates continue to function satisfactorily. In the Aberdeen bunded area the programme of clearing the mangrove was completed and new internal drains were cut. Routine maintenance was carried out and the low ground filled in with spoil derived from the drains. The Bund continues to show evidence of subsidence in parts, presumably due to consolidation in these sections and the level of the Bund was maintained by the addition of courses of blocks. The sluice gates worked efficiently but required repeated maintenance to the leading edges of the rafts. Further new internal drains are under construction.

The area was brought under larvicidal control and no Anophelines were found within the area.

41. The following table shows the monthly room density indices in Freetown of the female malaria vectors for the years 1943 to 1952:—

	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
January	 0.24	0.20	0.01	0.02	0.02	0.00	0.002	0.006	0.000	0.001
February	 0.22	0.23	0.01	0.02	0.01	0.003	0.000	0.028	0.009	0.012
March	 0.63	0.26	0.00	0.03	0.00	0.003	0.000	0.002	0.602	0.001
April	 0.30	0.04	0.01	0.02	0.00	0.006	0.000	0.004	0.000	0.003
May	 0.43	0.03	0.06	0.14	0.01	0.035	0.001	0.015	0.001	0.002
June	 0.46	0.26	0.33	0.68	0.12	0.045	0.091	0.061	0.073	0.026
July	 0.28	0.45	0.11	0.19	0.14	0.020	0.082	0.086	0.030	0.021
August	 0.17	0.19	0.04	0.02	0.01	0.001	0.014	0.007	0.005	0.000
September	 0.22	0.05	0.20	0.00	0.00	0.005	0.003	0.000	0.006	0.000
October	 0.16	0.01	0.00	0.00	0.00	0.005	0.001	0.000	0.006	0.001
November	 0.05	0.00	0.00	00.0	0.00	0.003	0.001	0.000	0.004	0.001
December	0.02	0.01	0.01	0.00	0.00	0.003	0.004	0.000	0.005	0.001

42. The annual average room density indices for the different areas during 1946 to 1952 were as follows:—

```
      1946 1947 1948 1949 1950 1951 1952

      Freetown ...
      ...
      0.08 0.027 0.011 0.017 0.017 0.012 0.006

      Kissy ...
      ...
      0.30 0.169 0.036 0.019 0.023 0.05 0.067

      Western Area ...
      0.34 0.095 0.095 0.106 0.113 0.28 0.018

      Wellington ...
      4.67 3.788 3.206 2.66 1.182 0.28 0.688
```

43. The distribution of the species of the important vectors caught in the various areas, was as follows:—

,	G.		M		F.		R.	
	1951	1952	1951	1952	1951	1952	1951	1952
Freetown control houses	110	53		destruction of	4		1	_
Kissy control houses Western Area (including Aberdeen Bund) control	116	131	alladingstrag	1	2	. 1		
houses	783	56	139	1				
Wellington control houses	459	2,562	108	225	98	96		

G-gambiae giles

M.—gambiae var melas theo

F.—funestus giles

R.—-rhodesiensis theo

44. The average room density index for the Urban Freetown Area is definitely lower than in recent years. Larval control has never been completely effective during the early rains, especially in June. It should be noted that the residual spraying in the Urban Area was undertaken in May and June. In the Western Area there has been a very marked reduction in the breeding of both A. gambiae and A. gambiae var melas Theo and the latter during 1952, was no longer an important vector. The Aberdeen bund, which is in this area, was previously responsible for heavy breeding of A. gambiae. The clearance of mangroves from the polder has now enabled larvicides to be used. There is a very marked increase in the number of A. gambiae and to a lesser extent an increase in A. gambiae var melas theo caught at Wellington. The rise in the average annual room density index also shows an increase but not to the same extent. During the latter part of 1951 the number of control houses was increased from 10 to 40 and these houses were retained throughout 1952. A further factor responsible was that the houses chosen as controls were closer to well-known anopheline breeding areas which were not subject to larvicidal measures.

45. The average parasite rates for infants attending the infant Welfare Clinic for the years 1945 to 1952 were:—

				Per cent
1945	• •	• •		20.1
1946		• •	• •	16.4
1947	• •	• •		11.8
1948	• •			19.2
1949		• •	• •	25.3
1950	• •	• •		23.3
1951		• •	• •	23.9
1952		• •	• •	18.1

46. The percentages of School children with positive blood films for the years 1945 to 1952 are shown below:—

Area		1945	1946	1947	1948	1949	1950	1951	1952
Urban		16	11	8	8	14	11	13.4	7.4
Suburban		18	17	14	18	23	12	18.3	13 6
Controlled Rural		entiretative.	********	18	31	28	30	25.3	13.5
Uncontrolled Rural	• •		Advato 199	36	36	45	40	43.6	39.1

Although the figures for the urban and controlled rural schools show a marked decrease, it is too early to make any further comment regarding the association between the lowered incidence and residual spraying.

47. The average parasite rates of expectant mothers attending the ante-natal clinic from 1945 to 1952 were:—

				Per cent
1945				16.3
1946			• •	12.0
1947				9.5
1948			• •	11.4
1949				19.4
1950	• •		• •	15.6
1951	• •	• •	• •	21.2
1952	• •			17.4

48. The following table gives details of all the films (excluding films from Europeans) examined at the Connaught Hospital from 1945 to 1952:—

	·	ann	al films ex- ined exclud- Europeans	Positive	Percentage	Total out-patients attending the Con- naught Hospital, the Infant Welfare Clinic and the Ante-natal clinic. "New Cases"
1945			12,059	1,710	14	42,567
1946			12,086	937	7	40,261
1947	• •	• •	10,319	1,139	11	44,745
1948		. •	12,415	1,810	14.8	47,910
1949			13,366	2,430	17.9	46,477
1950			12,252	2,244	18.3	40,410
1951			11,666	2,674	22.9	39,188 (exclud-
			T #13.			ing the figures for the infant Welfare Clinic)
1952	^ 3	• •	10,368	1,366	13.2	44,501

49. In view of the improvement in the previous figures, the following table of the number of blood films found to be positive for malaria among the African patients attending the Connaught Hospital from 1945 is of interest. These figures exclude films taken from the patients attending the infant Welfare and ante-natal Clinics:—

mino takon mon	 fraction to		ر معدد ،		022001		1100	CILLI	105.
		1945	1946	1947	1948	1949	1950	1951	1952
January	 	77	34	9	45	81	108	47	44
February	 	60	30	17	38	63	57	42	28
March	 	64	70	20	29	88	140	47	30
April	 • •	50	44	21	52.	54	84	36	38
May	 • •	89	45	65	69	127	106	89	41
June	 	129	119	75	254	120	266	160	50
July	 	194	312	129	351	357	415	591	121
August	 	77	79	71	99	185	157	336	51
September	 	42	73	82	45	92	119	153	59
October	 	88	68	118	71	168	82	78	38
November	 (71	44	68	95	103	64	57	30
December	 • •	40	19	42	36	71	31	28	14
TOTAL	 	981	937	717	1,184	1,509	1,629	1,664	544
								,	

The peak period for the highest incidence of Anophelines is June. The above table demonstrates that the peak period for malaria is July. The figures for the positive blood films in July of 1952 are the lowest reached since 1945. The number of blood films examined in July of this year is also the lowest recorded since 1945.

50. It does appear to be a significant fact that the total percentage of positive blood films taken from the school children and from the patients attending the Clinics and the Connaught Hospital has decreased and there is a marked decline in the number of blood films found to be positive from patients attending the Connaught Hospital during the peak period. It cannot be ignored that associated with the marked improvement there has been residual spraying in Freetown and its environs.

9—THE ENDEMIC DISEASES CONTROL UNIT

- 51. The Endemic Diseases Control Unit has been chiefly concerned with yaws, sleeping sickness and bilharzia. Treatment of yaws and the investigation of bilharzia occupied the whole time of two medical officers—one of whom had to be transferred from the Unit in September and leave the treatment of yaws to a Senior Attendant.
- A census of the population was not made although its desirability was accepted. A census would have necessitated the employment of extra attendants or else would have considerably reduced the numbers treated. The people were examined in their own villages and treated with five double injections of "Acetylarsan" 2 c. cms. and bismuth salicylate 3 grains in 2 c. cms. of oil at intervals of five days. Penicillin is more efficient and would have allowed a larger number of patients to have been treated, but it was too expensive. The great majority of patients completed their course of treatment.
 - 53. The summary of the results is as follows:—

33. The st	Estimated					s Non-		7	Fropical
	Popula-	. *	_		_	ctious	Tre	ated	•
· ·	tion	Examined	l No.	Per	No.	Per	No.	Per	No.
				cent		cent		cent	
Kunike	11,060	8,032	119	1.5	354	4.4	473	5.9	
Kunike Barina	5,165	3,901	30	0.8	83	2.1	113	2.9	-
Sambaia	8,180	7,459	196	2.6	250	3.1	446	5.9	
Dansogoia	3,585	2,448	125	5.1	77	3.1	202	8.2	18
Kalantuba	5,225	5,005	265	5.3	206	4.1	471	9.4	55
Kafe Simiria	8,330	6,578	415	6.2	214	3.2	629	9.4	102
Biriwa	16,475	14,420	1,053	7.3	906	6.3	1,959	13.6	358
Makari Gbanti	9,000	7,183	742	10.3	482	6.7	1,224	17.0	207
Bombali	7,475	6,692	372	5.6	578	8.6	950	14.2	149
Sela Limba	8,950	5,815	547	9.4	278	4.8	825	14.2	103
Pendembu	17,485	14,922	1,425	9.5	1,264	8 5	2,689	18.0	139
Gbanti Kama-	•								
ranka	9,825	9,565	869	9.1	1,065	11.1	1,934	20.2	82
Magbaiamba	5,243	4,728	428	9.0	328	7.0	756	16.0	60
Sanda Loko	9,225	6,997	694	9.9	268	3.8	962	13.7	94
Sanda Tenraran	13,470	12,026	831	6.9	926	7.7	1,757	14.6	162
Total	138,693	115,771	8,111	7.0	7,279	6.3	15,390	13.3	1,529

- 54. A comparison with the figures for the previous year cannot be made. In 1951 the Unit was handicapped by the lack of Medical Officers and treatment was given to all who either had evidence of yaws or who stated that they had had yaws, whereas in 1952 treatment was restricted to those who had definite evidence of yaws. It is realised that the treatment of contacts is highly desirable and that latent cases should also be considered. This would necessitate giving treatment to everybody in some of the chiefdoms.
- 55. The above table shows the order in which the chiefdoms were treated during the year. There is obviously a large rise in the incidence of yaws during the wet season and the peak is reached about November. The low incidence in the chiefdoms of Bombali and Sela Limba is probably due to the presence of a hospital

in each of these chiefdoms and in Kunike Barina to the fact that this chiefdom was treated in 1951. Dansogoia and Kafe Simiria were also treated in the dry season of 1951 but now show no improvement over Kalantuba which has since been treated. It therefore appears to be necessary to give treatment during the wet season when the number of patients suffering from infectious yaws is greater or, alternatively there are a greater number of contacts and latent cases than if treatment is given during the dry season.

56. Four sections of Luawa and parts of Upper Bambara and Penguia chiefdoms were visited by the census and diagnosis teams and were given prophylactic "Pentamidine." Thus all the border chiefdoms from Mafindo in the North to Dia in the South-west have now received prophylactic "Pentamidine." Less than 100 new cases of Sleeping sickness have been treated this year. Further investigation is still required on the incidence of the disease in Sherbro Island and Koya, and in Niawa and Langrama chiefdoms in Kenema District.

			Census Population	Population Examined		
Upper Bambara Section	• •		2,812	2,239	7	0.3
Penguia	• •		4,241	3,929	3	0.08
Luawa 2 Sections (Jan.)	• •		3,012	2,853	2	0.07
Luawa 2 Sections (Dec.)	* • •	• •	3,354	3,431	5	0.015
Total	• •	• •	13,419	12,452	17	0.14

Further investigations have been made regarding the hibernation of snail's in the mud, on the life span of the miracidia and on treatment with "Lucanthone." Dr. Elmer G. Berry made an inspection of many areas of the country and demonstrated the use of a chemical molluscicide. The distribution of bilharzia in the north is sporadic and the most northerly villages found to be infected are Ganya and Goeria Fotomou, north and north-east of Falaba. There is an isolated focus near Makali in Kunike Barina Chiefdom. From Blama to the east almost every village along the main and feeder roads is infected.

- 57. It was decided, towards the end of the year, to begin to treat leprosy at the treatment centres. It has so far only been possible for a Medical Officer to examine the patients at five centres and then start treatment. Already 102 patients are under treatment and many others are waiting to be examined.
- 58. Four new treatment centres have been opened at Sandaru (Penguia Chiefdom), Baiwala (Dia Chiefdom), Penguia (Lower Bambara Chiefdom) and Baoma (Koya Chiefdom). The centres now number twenty. The following table gives the figures for patients treated:—

		Sleeping Sickness	Yaws	Bilhar- zia	Ameo- bic Dysen- tery	Lep- rosy	Total New cases	Subsequent attendances
Koindu	• •	10	233	298	68	20	2,790	28,217
Kangama		40	586	91	153	22	4,448	12,110
Dodo	• •	9	101	112	67	8	2,971	3,427
Kailahun		18	298	413	117		4,282	4,716
Giehun		28	99	61	90		2,423	4,446
Mamboma		12	126	66	41		2,942	3,284
Sandaru		5	134	117	27		1,276	1,360
Bandajuma	• •	2	63	98	38		1,952	3,207
Gandorhun		• 1	165	140	115		3,759	3,429
Kayima	• •		165	116	21		1,926	2,414
Kainkordu		21	97	79	38		1,586	2,534
Mobai	• •	7	94	254	155	36	4,178	3,090

		Sleeping Sickness		Bilhar- zia	Ameo- bic Dysen- tery	Lep- rosy	Total New cases	Subsequent attendances
Baiwala		 5	64	288	47	16	2,240	2,520
Nyeama		 	104	127	54		2,752	6,044
Panguma		 	86	84	31		2,034	1,497
Boadjibu		 2	329	297	72		5,126	9,669
Sendumei		 7	63	9	25		1,135	1,619
Giema		 6	41	50	47		1,494	2,905
Baoma		 2	79	25	37		1,184	2,733
Binkolo		 	615		1	—	1,750	N.R.
То	tal	 175	3,542	2,725	1,244	102	52,248	99,221

- 59. Yaws and Sleeping Sickness.—In addition to the 18,932 patients treated for yaws and sleeping sickness by the Endemic Diseases Control Unit, 8,216 patients suffering from yaws were treated at Government hospitals and 7,481 were treated at Government dispensaries. A further 107 cases of sleeping sickness were reported.
- 60. Tuberculosis.—During the year 343 cases with 53 deaths were reported as compared with 289 cases with 46 deaths reported in 1951. There was no bovine tuberculosis but a few pigs were found infected with tuberculosis.
- 61. Smallpox.—Thirty-six cases and one death were reported as compared with 34 cases and no deaths in 1951. During the year 56,151 vaccinations were performed in the Colony and Protectorate.
- 62. Cerebro-spinal Meningitis.—No epidemic of this disease occurred in 1952 and only ten cases with three deaths were reported. The figures for 1951 were fourteen cases with six deaths.
- 63. Veneral Diseases.—Gonococcal infections accounted for 83 per cent of all cases of veneral diseases treated, and 10,848 patients were treated for Gonococcal infections, 532 for all forms of syphilis and 1,639 for other veneral diseases.
- 64. Dysentery.—The reported cases of amoebic and bacillary dysentery were 2,049 and 292 respectively. The true incidence of these diseases is very much higher than these figures suggest.
- 65. Enteric Fever.—Eighty-eight cases with nine deaths were notified during the year. Of these 50 cases with two deaths were reported from Freetown.
- 66. Diseases of the Respiratory System.—Twenty-six thousand two hundred and twenty-nine cases, with 76 deaths, of all forms of respiratory diseases, excluding pulmonary tuberculosis, were recorded in Government hospitals and dispensaries.
- 67. Diseases of the Bones and Organs of Movement.—This heading embraces numerous ailments. 13,938 cases, with three deaths, were recorded in Government hospitals and dispensaries.
- 68. Typhus (Murine).—Twelve cases with no deaths were reported during the year as compared with four cases and no deaths in 1951.
- 69. Rabies.—There were no human cases of rabbies recorded during the year. A total of seven dogs' brains was found positive for negri bodies out of eighteen dogs' brains examined.
- 70. Plague.—No cases of plague was reported and 4,019 rats were examined with negative results.
- 71. Yellow Fever.—No cases were reported. 1,784 inoculations were performed during the year.

10-MATERNITY AND CHILD WELFARE

- 72. All the hospitals offer facilities for dealing with maternity work. In the Protectorate Government Hospitals there were 514 admissions with 377 deliveries. In the Maternity Hospital at Freetown, there were 1,602 admissions and 1,104 were delivered. Out of 1,142 children born in the Maternity Hospital, 986 were discharged alive from the hospital.
- 73. Of the patients who were delivered in the Maternity Hospital at Freetown, 333 were primiparae and 771 were multiparae. There were 659 normal deliveries and 445 abnormal deliveries and of the latter 152 were only abnormal on account of tears of the soft parts. The following table is a list of the remaining 293 abnormal cases:—

Caesarean section	4 3	4	<i>b</i> •	19
Episiotomies	a •			9
Twins	• •	• •		38
Occipito posterior			e 0	15
Breech	• •	• •	g •	19
Face	• •	4 7		5
Premature	• •			111
Still born	• •			7
Forceps				27
Dead born				15
Ruptured uterus	• •			2
Intra partum eclamp	sia			1
Central placenta prae				1
Accidental haemorrh				6
Th / 1 1 /				6
Post partum haemor				1
Transverse lie				$\tilde{2}$
Anananhalisa		• •	• •	1
Uterine inertia	• •	• •	• c	= 2
Hydrocephalus	• •	• •	• •	1
Prolapsed cord	• •	• >	• •	1
Craniatami	• •	• •		1
Cramotomy	• •	• •	, ,	4

74. The following tables show the comparative figures for the attendances at the clinics during the past four years:—

ANTE-NATAL CLINIC									
		1949	1950	1951	1952				
New cases		2,328	2,564	2,492	2,823				
Subsequent	attendances	7,222	6,817	8,095	8,231				
Home visits	• •	3,815	4,634	5,638	7,190				
POST-NATAL CLINIC									
New cases	• •	787	946	1,006	1,300				
Subsequent	attendances	664	783	887	1,520				
	Infant	WELFARE	CLINIC						
New cases		1,660	1,630	Figures	1,733				
				not					
6.1		10.00		available					
Subsequent	attendances	10,926	7,453	,,	9,789				
Home visits	• •	21,830	20,374	27,752	40,630				

The number of home visits to patients who required ante-natal care has previously been recorded inacurately and only the number of subsequent visits has been given. The figures for the previous years have now been corrected and the figures now show the total visits paid. Likewise the figures for home visits under the Infant Welfare Clinic for 1951 have been corrected. The figures for 1950 were incomplete.

75. There were thirteen maternal deaths but three of these patients were moribund when admitted. The causes of the deaths were as follows:—

MATERNAL DEATHS

Ruptured uterus			2
Peritonitis Ruptured uterus	• •		1
Intra partum eclampsia	• •		2
Acute heart failure		• •	1
Toxaemia of pregnancy			1
Doct works to be a second to a second			14

Acute heart failure ... 1
Toxaemia of pregnancy ... 1
Post partum haemorrhage ... 1
Puerperal Sepsis ... 1
Obstructed labour Cardiac failure ... 1
Paralytic ileus ... 1

Ante partum eclampsia Placenta praevia

11—SCHOOL MEDICAL SERVICE

76. A daily clinic was held by the Lady Medical Officer for the School children; 2,894 children attended and paid 2,407 subsequent visits. A further clinic was held at St. Joseph's Convent by a Sister and, 6,008 children were treated with 20,025 subsequent attendances. Routine visits of inspection were paid to the Islamia, Roosevelt, Cathedral Infants, Holy Trinity Infants, Bathurst Street, Municipal Intermediate and St. Anthony's Infant Schools. In all 994 children were examined. Approximately 30 per cent of the children showed minor degrees of malnutrition and in about 25 per cent of this group evidence of avitaminosis was present. Tuberculosis was suspected in 24 children and of these five were found to show an active infection.

12—LABOUR CONDITIONS

77. The three largest of the Mining Camps were inspected and a large area which one of the Mines intends to develop was visited. Careful consideration is being given to the planning of this area in order to prevent the sudden influx of new comers overcrowding existing villages.

13—PORT HEALTH WORK

- 78. Freetown Port.—The Port Health work was carried out by a Senior Sanitary Inspector under the general supervision of a Medical Officer of Health. During the year 818 vessels visited Freetown and no cases of quarantinable diseases occurred.
- 79. Lungi Airport.—The number of aircraft landed at the Airport was 332. The vaccination state against smallpox and yellow fever among the staff and families was well maintained. The International Sanitary Regulations (World Health Regulation No. 2) came into force on the 1st of October.

14—TRAINING OF JUNIOR STAFF

- 80. Nursing.—Nurses are trained at the Connaught and Bo Hospitals. One Nursing Sister is posted for whole time training duties at the Connaught Hospital and every effort is made to raise the standard. During the year, fourteen males and eleven females successfully completed the course. Seventy-six nurses are undergoing training.
- 81. Midwives.—Midwives are trained at the Maternity Hospital. Training was also formerly given at Bo but has had to be temporarily stopped owing to shortage of staff. Thirteen Midwives were successful in the local examination, and thus became entitled to local registration.
- 82. Sanitary Inspectors.—All the Sanitary Inspectors are trained in Freetown and four successfully completed the course. Encouragement is given to Sanitary Inspectors to sit for the Certificate of the Royal Sanitary Institute (West Africa) but no candidate attempted the examination during the year.
- 83. Druggists.—Four dispensers-in-training were successful in passing the local examination.

15—HOSPITALS AND DISPENSARIES

- 84. All the hospitals were staffed by Medica! Officers throughout the year and only one dispensary at Panguma remained closed. This was opened later in the year by the Endemic Diseases Control Unit. A list of the hospitals with their yearly attendances and their bed strengths is given in Appendices II and III. The list of dispensaries is given in Appendix IV.
- 85. The following statistics show the number of patients treated at the various Government Institutions during the past four years:—

J.—Colony:	1949	1950	1951	1952
(a) Connaught Hospital				
In-patients	3,696	3,143	2,799	2,948
Out-patients:				
New cases	42,489		36,696	•
Subsequent attendances	83,533	97,635	113,070	124,692
(b) Hill Station Hospital	2.50	207	227	254
In-patients	359	387	337	354
Out-patients:	4.4.0	53 0	410	£11
New cases Subsequent attendances	446 837	528 601	410 631	511 696
*	031	007	051	070
(c) Dispensaries	11 751	12 241	17 011	15 512
New cases Subsequent attendances			47,814 137 861	
· ·	210,010	11.0,012	137,001	122,107
II.—PROTECTORATE:				
(a) Bo Hospital	1 505	1,461	1 200	1 005
*	1,595	1,401	1,388	1,805
Out-patients: New cases	16,819	15,415	15,411	17,755
Subsequent attendances	•		•	•
(b) Other Hospitals	,	, , , , , ,	- " , - " - " - "	, , , , , , , , ,
In-patients	1,930	3,029	2,361	3,372
Out-patients:	x , , , , ,	J, 021	2,501	3,312
→	35,967	63,282	45,343	66,589
Subsequent attendances	86,419	164,928	116,623	116,965
(c) Dispensaries				
	107,889	82,748	97,891	81,058
Subsequent attendances	207,289	136,406	165,669	143,372

86. The surgical operations performed at the Connaught Hospital during the year were 4,053 and of this number 2,211 were cured and 1,789 were relieved.

16—KISSY MENTAL HOSPITAL

- 87. The general health of the patients has been fairly good but the hospital is overcrowded. Occupational therapy which includes gardening, basket, mattress and pillow making and domestic tasks was encouraged.
- 88. The hospital was visited on many occasions by various voluntary organisations and they provided local luxuries for the patients. The radio rediffusion was also greatly appreciated. The British Council continued their welcome supply of periodicals.
- 89. Electric light was installed throughout the hospital. It is controlled by a central switch in the administrative block. All wiring is concealed and only bulk head lights are fitted in the wards.

90. The following table gives statistical details:—

			1950	1951	1952
Admissions	• •		54	61	66
Discharges			55	27	38
Deaths	• •	• •	15	16	33
Number of patient	s in hospi	tal on			
31st December			173	191	186

There has been a noticeable increase in the number of deaths but the majority fall into one of the three groups. The first group is associated with old age and consists of cerebral haemorrhage and thrombosis cases, the second group is neuro syphilis, and the last group is associated with intestinal disorders—the dysenteries and helminthic infestations.

17—THE MALE AND FEMALE INFIRMARIES

91. Early in the year the female patients were transferred to the new ward at the Male Infirmary. The majority of the patients are very feeble or bedridden but every encouragement is given to occupational therapy and this has consisted of the cultivation of gardens and needlework. The latter was instituted by the Social Welfare Department.

			Males	Females	Male
Remained in hospital	on 31st De	ecember,			Lepers
1951			57	29	9
Admissions		• •	21	11	4
Discharges		• •	4	4	1
Deaths		• •	10	7	1
Absconded		• •	5	1	3
Number of patients in	hospital	on 31st			
December, 1952			59	28	8

18—DENTAL SERVICES

- 92. A third Dental Officer was appointed during the year but owing to the incidence of leave only one visit was paid to the Protectorate. Detailed statistics were made of the dental treatment required by the children at the Annie Walsh Memorial, the St. Joseph's Convent and the Freetown Secondary School for Girls and treatment offered.
- 93. A dental mechanic from the Medical Department of the Gambia was posted to this centre for tuition for five months.

			Patients	Fillings	Extractions	Other Treatment	Anaes- thetics
1948		 	9,866	1,240	9,391	751	7,574
1949		 	10,088	1,822	6,957	781	2,353
1950		 	8,421	1,085	7,743	341	6,253
1951	• •	 	9,399	1,548	7,865	140	6,977
1952	• •	 	10,909	2,372	8,377	1,066	7,046

19—X-RAY DEPARTMENT

94. X-Ray Units are available at the Connaught Hospital, Freetown, and at the Bo Hospital and both are in charge of radiographers. The following table records the number of examinations during the past five years:—

	Frei	ETOWN			
	1948	1949	1950	1951	1952
Total patients examined	4,299	5,527	4,560	5,689	6,186
Radiographic examinations Fluoroscopic examinations	8,963 676	10,663 854	9,317 780	10,229 1,409	11,616 673
Total radiological examinations	9,639	11,517	10,097	11,638	12,289

95. The transformer of the new unit which should have been installed in Bo had to be returned to the manufacturers for adjustments and the department at Bo has been handicapped by having to use an old unit of limited utility. No fluoroscopic examinations were possible. The number of patients examined was 1,100.

20—PATHOLOGICAL LABORATORY

- 96. The post of Pathologist still remains vacant and when the Senior Pathologist proceeded on leave the laboratory service had again to be restricted.
- 97. Appendix I details the work performed by the laboratory. A total of 48,062 examinations was made at the Freetown laboratory and 4,946 examinations were made at Bo. The figures for the previous year were 45,320 and 4,498 respectively.
- 98. A routine blood culture and a Widalexamination are made from all patients admitted to hospital with "pyrexia of unknown origin". Thus a correct diagnosis is made in most instances when a patient is suffering from typhoid fever, Salm typhi was isolated on 49 occasions from 26 patients and in 22 of these the blood cultures were positive. The dysenteries are common infections and there were 87 proved cases of amoebic dysentery and 120 of bacillary dysentery. Sh. flexneri W and Z were the commonest causative organisms. Two cases of infection with Sh. shigae and two of Sh, boydii P 143 were found.
- 99. Of the 847 specimens of sputum received from African patients 278 were positive for tubercule bacilli—but many of these were repeat examinations. Tuberculosis was the cause of death in fifteen post mortem examinations out of a total of 173.

21—HER MAJESTY'S PRISONS

100. The general health of the prisoners was satisfactory but the prison and the remand section remained overcrowded

i chiana section i chiantea overciowa					
		1949	1950	1951	1952
Daily average number of prisoners		554	629	418	433
Admitted to hospital		302	166	269	289
Deaths		8	3	as. 2	1
Out patients:—					
New cases		11,751	7,877	9,270	6,067
Subsequent attendances		50,057	29,643	28,897	18,485

22—CONCLUSION

101. Further appendices are given with this report:—

Appendix i—Details of the Laboratory investigations

Appendix ii—Government Hospitals and their bed strength

Appendix iii—Attendances at Government Hospitals

Appendix iv—Attendances at Government Dispensaries

Appendix v—Mission and Mining Hospitals and Dispensaries

Appendix vi—Returns of patients treated at Government Hospitals.

E. A. RENNER,
Director of Medical Services.

APPENDIX I

DETAILS	OF	EXAMINATIONS,	1952
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70				, , , , , , , , , , , , , , , , , , , ,		Examined
BLOOD FILMS		7	otal			10,554
Connaught Hospital Infant Welfare Clinic Ante-Natal Clinic Europeans Malaria Control Uni			4,476 1,594 2,651 186 1,647	P. falciparum	\begin{cases} (542) \\ 247 \\ 453 \\ 9 \\ 117 \end{cases}	
	Total	1	0,554		1,368	7
		· · .			1,500	
FAECES						2,842
	• •	• •	• •		. 18	
	• •		• •		. 491	
Ankylostome	• •	• •	• •	• •	. 204	
	• •	• •	• •	• •	. 6	
<i>23</i>	• •	• •	• •	• •	. 169	
Trichuris	• •	• •	• •	• •	. 153	
2	• •	• •	• •	• •	. 68	
Ent. histolytica cysts		• •	• •	• •	. 19	
	• •	• •	• •	• •	. 31	
Giardia	• •	• •	• •	• •	. 8	
	• •	• •	• •	• • •	. 47	
Iod. butschlii	• •	• •	• •	• •	. 11	
Balantidium coli	• •	• •	• •	• •		
	• •	• •	• •	• •	. 2	
	•	• •	• •	• •	. 616	2.570
URINE					045	2,579
	•	• •	• •	• •		
9	•	• •	• •	• •		
	•	• •	• •	• •		
	• • ^	• •	•-•	• •		
	•	• •	• •	• •		
	•	• •	• •	• •		
	•	• •	• •	• •		
	• •	• •	• •	• •	. 341	1.050
VENEREAL DISEASE Urethral Smears:						1,250
Africans		• •	964	Gonococci .		
Europeans		• •	24	Gonococci .	. 8	
Cervical Smears:						
Africans	• •	• •	123	Gonococci . Trichomonas .		
Europeans	• •		1	Gonococci . Trichomonas .	. —	
Eye Smear	• •	• •	26	Gonococci .	~~	
D.G.I.			0.0	Ta mallidama	E	
Africans	• •	• •	98	Tr. pallidum.		
Europeans	• •	• •	12	Tr. pallidum .		965
Frei Test	• •	• •	2			865
SPUTUM A C:			0.47	M tubaraulasi	270	
Africans Europeans	• •	• •	847 18	M. tuberculosi M. tuberculosi		

	Д	PPEND	OIX I—con	ntinued			
Наематого			124 1 00%				Examined
	an Patients:						5,617
	Red cell count		• •	• •	• •	517	
	Hæmoglobin	• •	• •	• •		,314	
The state of the s	Packed cell volume	•	• •	• •	2	2,048	
	Reticulocyte Bleeding time	• •	• •	• •	• •	200	
	Coagulation time	• •	• •	• •	• •	$\tilde{1}$	
	Sedimentation rate			• •		309	
	Blood Group		• •	• •		82	
	pean Patients:						
4.	Red cell count		• •			9	
	Hæmoglobin			• •		70	
]	Packed cell volume	·		• •	• •	55	
]	Reticulocyte	• •	• •	• •	• •	2	
Anow	nia Africans:						
Anen	iia Africans.			Moderate	Severe	2	
				0.7g—. $10g$.	_		
1	Normocytic orthoc	hromic		119	37		
	Normocytic hypoch			76	96		
	Microcytic orthoch			2	9		
	Microcytic hypochi			10	27		
	Macrocytic hypoch	romic		1	2		
Ante-	Natal Anemia:	T_{O}	tal	Mode	rate		Severe
7	Normal	80		1110ac	ruic	٨.	
	Orthochromic		per cent)	302 (21 P	er cent)	37 (3	per cent)
	Hypochromic		per cent)		,		per cent)
						100	
	Total	1,417		508		102	
CEREBRO-SPI	inal Fluids						404
	- 44					20	
	Cells increased	• •	- • •	• •	• •	39	**
	Protein increased		• •	• •	• •	26 2	
	Chlorides	9 9	• •	• •	• •	4	
	Colloidal gold					3	
	Lange) Tubercle bacilli	• •	• •	• •	• • •	1	•
	neumococci			• •		1	
	Kahn Tests	184	Positiv	re 13			
			Negati	ve 171			
BIOCHEMISTR	Y					¥	482
		c •	Increased		Increas	sed	
	A_j	fricans	Or Dogitina	European		wa	
T	Blood urea	65	Positive 19	6	Positi 3	ve	
	Jrea clearance	5	1 <i>9</i>	2			
	Blood sugar	22	9	1	_		
	lugar tolerance	11	5	4	2		
	Fastric test meal	20		5	******		
	an den Bergh	70	25	12	4		
	lasma bilirubin	30	**********	3	-		
T	'hymol turbidity	64	9 9	12	. 5		
	line sulp. turbidity			12	4		
T	'akata Ara test	64	52	13			

	APPE										
	ALLE.	NDIA	1	пиниси		E	Examined				
Alkaline phosphatase	2		1	1							
Acid phosphatase	2		2								
Diastase	1 1			_							
Plasma sodium Plasma protein	1			1							
Plasma bromide	_			1	-		6,960				
KAHN TESTS				-	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Africans			6,904	Positive	2,0)47					
Europeans		• •	56	Positive	• •	2					
Laughlen Tests							7,472				
AGGLUTINATION TESTS							449				
Africans			434								
Europeans	• •	• •	15								
	Titre	• •	1:25	1:125							
		_	1:50	+							
Salm. typhi H			56	13							
Salm. typhi O			13	29							
Salm. paratyphi A	• •		22	25							
Salm. paratyphi B	• •		16	15							
Salm. paratyphi C	• •	• •	5	2							
S. enteritidis Salm. non-specific	• •	• •	23 13	15 14							
B. proteus X19	• •	• •	19	10							
B. proteus X2	• •		16	23							
BACTERIOLOGY							2,117				
Fæces	•	• •	• •	• •		392					
	•	• •	• •	• •		166					
Blood	•	• •	• •	• •		254 74					
Throat swab	•	• •	• •			83					
Eye swab	•	• •	• •	• •	• •	55					
	•	• •	• • ,	• •	• •	19					
	•	• •	• •	• •	2	274					
Organism Isolated:			40	DI 1 22	Г	07					
Salm. typhi	• •	• •	49	Blood 22	Fæces	27					
Salm. paratyphi C Salm. enteritidis	• •	• •	2								
Salm. typhi murium	• •	• •	4								
Salm. stanleyville			1								
Salm. ? new type O -	– XXX	VIII E	I = Y	1:5	• •	1					
Sh. flexneri V	• •	• •	5								
Sh. flexneri W	• •	• •	33 32								
Sh. flexneri Z Sh. flexneri VZ	• •	• •	19								
Sh. fléxneri 103	• •	• •	1								
Sh. newcastle			5								
Sh. shigæ		• •	2				,				
Sh. sonnei	• •	• •	13								
Sh. schmitzi Sh. boyd P. 143	• •	• •	8 2								
511. 00yd F. 143	• •	• •	7				301				
WATER EXAMINATION							374				
Freetown	• •	• •′	334	unsatisfacto	ory	20					
Hill Station	• •	• •	30	"		4					

	APPENDIX	\ 1—con	tinued			Enguina
Lungi		11				Examinea
Marampa	• •	14	,,		14	
Waterloo	• •	1	,,		1	
Bonthe	• •	4	,,		4	
	• •	т	,,		7	220
HISTOLOGY					04	238
Biopsy	• •	• •	• •	• •	94	
Uterine biopsy	• •	• •	• •	• •	18	
Post mortem tissues	.• •	• •	• •	• ¢	108	
Dog brain	• •	• •	• •	• •	18	
Sections of Special Intere	st:					
Sarcoma	•. •	• •	• •	• • .	4	
Melanoma	• •	• •	• •	• •	I	
Kaposi hæmorrhagic sa	arcoma	• •	• •	• •	1	
Squamous carcinoma	• •	• •	• •	• •	8	
Basal cell carcinoma		• •	• •	• •	1	
Adeno carcinoma swea	it gland	• •	• •	• •	1	
Carcinoma thyroid	• •	• •	• •	• •	1	
Carcinoma liver	• •	• •	• •	• •	1	
Carcinoma stomach	• •	• •	• •	• •	1	
Dysgerminoma ovary		• •	• •	• •	2	
Neuroblastoma adrena		• •	• •	• •	1	
Teratoma (sacro-coccy)		• •	• •	• •	1	
Mixed salivary tumour			• •	• •	3	
Squamous carcinoma o	ervix	• •	• •	• •	2	
Synovioma	• •			• •	1	
Chondroma	• •			• • γ	1	
Fibroma		• •	• •	• •	6	
Lipoma		• •	• •		5	
Histiocytoma	• •	• •	• •		1	
Hæmangioma	• •		• •		2	
Lymphangioma	• •		• •	• •	1	
Lymphadenoma	• •		• •	• •	2	ig.
Myeloid epulis		o •	• •	• •	1	
Papilliferous cyst adend	oma sweat g	land	• •		1	
Hydatidiform mole		• •	• •		1	
Metropathia hæmorrha	igica	• •	• •		1	
POST MORTEM						173
Coroner					73	173
Connaught Hospital	• •		• •	• •	60	•
Mental Hospital	•	• •	• •	• •	30	
M.O.H.	• •	• •	• •	• •	10	
Renal:	• •	• •	• •	• •	10	
					1	
Subacute nephritis	• •	• •	• •	• •	1	:
Chronic nephritis Tuberculosis	a ♦	• •	• •	• •	1	`
	• •	• •	• •	• •	1	
Hydro nephrosis	• •	• •	• •	• •	1	
Pyelo nephritis	o e	0 •	• •	• •	2	
Miscellaneous:						
Septicæmia S. enteritid		• •	6 6	• •	1	
Septicæmia pyocyaneus	• •	• •	• •	• •	1	
Septicæmia streptococc	i	• •	• •	• •	2	
Typhoid	• •	• •	• •	• •	2 2 3	
Pyæmia	• •	• •	• •	• •		
Anæmia	• • .	• •	• •	• •	4	
Starvation	• •		• •	• •	1	

APPENDIX I—continued

				ı com				Examined
Old age					• •			
	l causes "				• •	• •	2 3 2	
Lymphad	lenoma	• •	• •		• •		2	
VETERINARY				1.0	D 11		~	3,730
Dog brain		• •	• •	18	Rabies	• •	7	
Cow bloc Rats:	od mins	• •	• •	6	Anthrax	· • •		
R. rattus				3,496				
R. norveg	ziens		• •	523				
Fleas:	51040	• •	• •	020				
X. cheopi	is			210				
X. brazili				12				
Medico Legal								51
Vaginal s		• •	• •	13	Gonococci		2 2	
Urethral	smears	• •	• •	4	Gonococci	• •	2	
Clothes		• •	• •	19	Blood	• •	6	
Sheets, et		• •	• •	5 4	Blood Blood	• •	2 2	
Weapons Blood alc		• •	• •	4	Blood	• •	L	
Sasswood		• •		1				
Cannabis			• •	1				
Miscellaneous								101
Skin scraj	ping			36	Tinea 3 I	3. lepra	e 1	
Seminal fl			• •	15		_		
Blood film		• •	• •	5				
Gland pu			• •	6 3 2				
	pregnanc		• •	3				
Groundni		 ation	• •	1				
Fluids	ig innocula		• •	22				
Others	• •	• •	• •	11				
YELLOW FEVER			• •					1,784
			TOTA	L	• •	• •	• •	48,062
1	FYAMIN	ATION	AT R	O SIII	B-LABORA	TORV		
BLOOD FILMS		AIIOI	AI D	0 301	D-LADORA	IOKI		1,799
DECOD TIEMS				P.falci	iparum		811	1,777
FAECES					L			937
Ankylosto	ome	• •		• •	• •		218	
Ascaris	• •	• •	• •		• •		315	
Trichuris		• •	• •	• •	• •	• •	3	1
Ent. histo	lytica	• •	• •	• •	• •	• •	54	526
Tænia	• •	• •	• •	• •	• •	• •	21	536
SPUTUM	1						1.1	
M. tuberc		• •	• •	• •	• •	• •	_ 11	400
URETHRAL SMEA	PS							139
N conorr								
N. gonorr		• •			• •	• •	79	
URINE		• •	• •	• •	• •	• •	79	1,415
URINE MISCELLANEOUS		• •	• •	••	• •	• •	79	88
URINE MISCELLANEOUS C.S.F.	hoea	• •	••	••	••	• •	79	88
URINE MISCELLANEOUS	hoea	• •	••	••	••		79	88
URINE MISCELLANEOUS C.S.F.	hoea	• •		···	•••		79	88 2 30
URINE MISCELLANEOUS C.S.F.	hoea	• •	тот	···	•••		79	88 2 30 4,946
URINE MISCELLANEOUS C.S.F.	hoea	••	Тот		 OTAL		79	88 2 30

APPENDIX I—continued

CAUSE OF DEATH

								Examined
Violen								
			• •	• •	• •	• •	14	,
	Drowning	• •		• •	• •	• •	8	
	±	1.	• •		• •	• •	1	
	Lightning	• •	• •	• •			1	
		• •	• •		• •	• •	3	
	Electrocution		• •			• •	1	
	Asphyxia (pea nut)	• •				• •	1	
Dagniy	atous.							
Respir							4	
1 =	*	• •	• •	• •	• •	• •		
	Broncho pneumonia		• •	• •	• •	• •	8 3	
	A 1	• •	• •	• •	• • 5	• •	3	
	•	• •	n • •	• •	• •	• •	1	
	T.C.	• •	• •	• •	• •	• •	3	
		• •	• •	• •	• •	• •		
	Tuberculosis	• •	• •	• •	• •	• •	11	*
	Emphysema	• •	• •	• •	• •	• •	1	
Cardio	Vascular:							
	Aortitic	• •					9.	
	Days frame on order						3	
	Gumma	• •			• •		1	
	Anarimiam boart				•		1	•
	Dorigonditie	• •					4	
	Endocarditis		• •				1	
	Coronary occlusion	• •	• •		• •		2	
	A /1	• •			• •	• •	1	£
	TT	• •	• •	• •	• •	• •	2	
	Aortic incompetence		• •				2 2	
	"Acute heart failure"	,,	• •	• •	• •	• •	1	
1 1			• •	• •	• •	• •	•	
Alimer	ntary:							
		• •		• •	• •		9	
1			• •	• •	• •	• •	2 2 3	
	Colitis	• •			• •	• •	2	
	Enteritis	• •	• •	• •	• •		3	
	Strangulated hernia			• •	• •	• •	1	
	Volvulus	• •		• •	• •	• •	2	
	Tuberculosis	• •	• •		• •	• •	1	·
	Cirrhosis liver	• •				• •	2	
200	Carcinoma liver		• •	• •	• •		2	١
			• •		• •		1	
	Perforated duodenal	ulcer	• •		• •	• •	1	
p	Peritonitis	• •			• •	• •	. 1	``
1	Necrosis liver		• •		• •	• •	3	
Contus	A Narvous Custom				1			
Centra	l Nervous System:	2					12	
2 1 1 h	Cerebral hamorrhage		0 •	• •	• •	• •	12-	
1 2		• •	• •	• •	• •	• •	2	
		• •	• •	• •	• •	• •	2 5 2	
	*	• •	• •	• •	• •	• •	2	
	Meningitis:—			**				
	Purulent	• •	• •		• •		2	
MARIA	I III WILLIOU COUCUI	• •	• •	• •	• •	• •	1	
فالك بالمصادر والانتهام الأوالية	Tuberculous	9 •	• •	• •	• •	• •	2,	

APPENDIX II GOVERNMENT HOSPITAL BEDS

Number and Category of Beds Name and Location of Hospital General Obste- Tuber- Infec- Mental Remarks culosis tious trical A.—COLONY Connaught 18 132 4 Plus 23 cots Connaught Annexe 20 2 2 Hill Station 30 2 1 ,, ,, Maternity 42 22 Murray Town 50 Lakka Infectious Diseases 60 Kissy Mental ... 112 King George V Memorial Home *8 For the 56 aged and Female Infirmary 29 indigent B.—PROTECTORATE Plus 8 cots Bo 70 10 4 8 Bo Annexe 4 Bonthe 32 6 2 Moyamba 18 Pujehun 22 Kailahun 23 ,, 1 cot Makeni 26 Port Loko 18 Kabala 30 Lungi 12† 572 113 Plus 61 cots Total 58 22 84

^{*}For Leprosy † The twelve beds in this Institution are reserved for emergency and in the event of accident to an aircraft.

APPENDIX III ATTENDANCES AT THE GOVERNMENT HOSPITALS

OUT-PATIENTS IN-Name of Institution **PATIENTS** New Subsequent Total Attend-Attend-Cases A.—Colony ances ances 39,945 124,692 164,637 Connaught 2,948 Hill Station 354 511 696 1,207 Maternity 1,640 125,388 4,942 40,456 165,844 TOTAL **B.**—Protectorate 1,805 17,755 91,127 108,882 Bo 24,778 486 7,849 32,627 Bonthe 21,321 Moyamba 30,440 346 9,119 13,965 32,366 46,331 Makeni 508 2,468 7,670 10,138 Pujehun 493 8,931 7,036 Port Loko 15,967 293 5,707 10,944 16,651 Kailahun 632 7,263 11.025 Kabala 18,288 614 6,085 7,027 Lungi 13,112 208,092 5,177 292,436 84,344 TOTAL Colony Hospitals 4,942 40,456 125,388 165,844 5,177 Protectorate Hospitals 84,344 208,092 292,436

10,119

124,800

333,480

458,280

GRAND TOTAL

APPENDIX IV
ATTENDANCES AT THE GOVERNMENT DISPENSARIES

			New	Subsequent	Total
A	-Colony		Cases	Attendances	Attendances
	Cline Town		14,954	55,909	70,863
	Recent	• •	3,720	9,074	12,794
	Vork	• •	8,192	5,745	13,937
	Kent (included in York's figures)				
	Waterloo		3,708	6,359	10,067
	Songo		2,380	3,995	6,375
	Hastings		2,357	1,558	3,915
	Newton		1,721	3,252	4,973
	Kissy		5,998	30,170	36,168
	Wellington		1,975	5,222	7,197
	Bananas (Staffed by Dispenser du	ring			
	rainy season)	• •	538	825	1,363
	Total		45,543	122,109	167,652
B	-Protectorate	•			
	CRanya		8,252	10,601	18,853
	Mahana	• •	4,535	9,796	14,331
South-western	Mano	• •	3,681	4,046	7,727
ste	Mano	• •	3,892	4,682	8,574
We.	Sembehun	• •	4,668	5,984	10,652
4	Sulima	• •	1,751	2,717	4,468
D C	Sumbuya		4,202	17,437	21,639
S	Gbap		3,143	8,531	11,674
- 1	York Island	• •	4,735	1,730	6,465
ه ند	Blama		4,832	3,807	8,639
South-east-	Kenema	• •	6,223	8,023	14,246
h-e	Pendembu	• •	2,631	5,079	7,710
Dr	Daru	• •	3,549	12,110	15,659
Series	Koidu	• •	5,096	11,104	16,200
Q			, , , ,	,	,
n a	Mabonto		5,275	9,562	14,837
Northern	Yonnibana		6,066	6,071	12,137
T. C	Kambia		6,469	15,150	21,619
Nd	Batkanu	• •	2,058	6,942	9,000
	TOTAL		81,058	143,372	224,430
Col	LONY DISPENSARIES		45,543	122,109	167,652
	DISTECTORATE DISPENSARIES	• •	81,058	143,372	224,430
	GRAND TOTAL	• •	126,601	265,481	392,082

APPENDIX V

MISSION AND MINING HOSPITALS AND DISPENSARIES BED STRENGTH

REMARKS				Plus 7 Cots		,, 20 ,,																î	,, 6 ,,		
SC	ts Mental	- N N N N N N N N.	1-						ficer)	1	1		1		1	1									
RY OF BEI	is Infectiou	ALS	m	1	1 :	9 7			Medical Of	1	1	1		1		I			1	1	1		1		22
NUMBER AND CATEGORY OF BEDS	Tuberculos	ON HOSPITALS	7	. .		1		is.	a resident]	1	1		ĺ		1	1			1	1					6
NUMBER A	Obstetrical Tuberculosis Infectious	MISSION	2	∞	8	200			the care of a resident Medical Officer)	7		1		1	7	1			1	1	4	ر	9	•	92.
	General	i a	30	24	= 2	36 9 6				7					10	1			1	1	~	4°C	1		129
6	FLACE	1	Kamakwie	Rotifunk	Tiama	Segbwema Princess Christian Mis-	Hospital,	town	Mission Dispensaries (not under	Kukuna via Rokupr	Bendembu via Makeni	Massumbo via Makeni	Kamabai via Makeni	Bafodia via Kabala	Mattru Jong	Gbangbaia (visited	monthly)		Yifin (Nieni Chiefdom)	Ganya	Bendugu	Sunumbu	Serabu		rward
	MISSION			bretnren		Society								•,	nerican		٠	h Associa-	· · · · · · · · · · · · · · · · · · ·			•			Carried forward
	NAME AND MISSION		American Wesleyan	Evangelical United Brethren in Christ		Methodist Church Missionary Society				American Wesleyan					United Brethren American			Missionary Church Associa-	tion		· · · · · · · · · · · · · · · · · · ·	Methodist .	Roman Catholic .		

APPENDIX V-continued.

DEMARKS	NEWARKS						Plus 33 Cots
•	Mental	.		1	٠	1	
RY OF BEDS	Obstetrical Tuberculosis Infectious Mental 76 9 22	1	ALS	20	dical Officer)		42
NUMBÈR AND CATEGORY OF BEDS	l Tuberculosi.	1	MINING HOSPITALS	14	care of a resident Medical Officer)		13
NUMBÈR	Obstetrica 76	1	·Mı	7			78
	General 129	1		50	under th	1.	201
•	:	•		::	RY (not	:	:
PLACE		Jaima		Yengema Lunsar	MINING DISPENSARY (not under the	Pepel	•
NAME AND MISSION	Brought forward	Evangelical United Brethren in Christ		Sierra Leone Selection Trust Sierra Leone Development Company	MININ	Sierra Leone Development Company	Total

APPENDIX VI

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS

	ents F.	,	62	4	1	6	m	30	74	1 9	886	1	1	1,039
	Out-Pati M.	i O	/71	1	~	6	90	134	102		4,846 41	4		5,244
		i,	2	7	1	7	- 1		1 1		1 (1		1	22
NON-EXPATRIATES	Deaths M. F		32	l	1	****	1 1		-	٠ (71	1		43
-NON	In-Patients M. F.		35	8	1	6	77	1 1	14	•	21	1	1	92
	In-Pa M.		75	. 	7	7	ю –	- 7	1=	⊣	101	4		249
	Out-Patients M. F.	+	1	١	1	1			. 1		1 1	1	1	
	Out-P.		7	1	9	١		7	-	İ	2			6
RIATES	ths F.	1	1	1	1	1	1			1			1	
EXPAT	Dea M.	1 4 4 8 8		١	1	I				ł		ļ	1	
	tients F.		1	I	1	1	·			1	-	1	1	-
	In-Patients M. F.		m	1	1_	-	١	-		1	-		1	5
	DISEASES	CAUSE GROUPS	Tuberculosis of respiratory	system Tuberculosis of meninges and	central nervous system Tuberculosis of intestines, peritoneum and mesenteric	glands Tuberculosis of bones and	joints Tuberculosis, all other forms	Congenital syphilis Early syphilis	Tabes dorsalis General paralysis of insane	All other syphilis	Gonococcal infections	Paratyphoid fever and other	Salmonella infections Cholera	Carried forward
		Intermediate Detailed	001-008	010	0111	012, 013	014-019	020 021	024 025	022, 023	030-025	040 041, 042	043	
		Intermedian List No.	A 1	A 2	A 3	A 4	A 5	A 6	8	A 10	A 11	A 13	A 14	

APPENDIX VI—continued

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS

Non-EXPATRIATES In-Patients Deaths Out-Patients M. F. M. F. M. F.		92 43 22 5,244 1,039		23 7 \$ 120 62.	11 7.98	3 2 151			2 21	"			1 - 40	7		113	4C CI				1 1 - 5 2		•			211 89 52 6,016 1,549
Out-Patients In-H M. F. M		9 — 249		37				1	4	"	7 2	-		0		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- 34		-					2		23 5 458
EXPATRIATES Deaths O M. F.				 		1			i					1					-					1	1 :	
In-Patients M. F.		5 1	1	6 4	2	4		1	2	1			-	A Company of the Comp	- George		1	1		1				1	; 	22 7
DISEASES	CAUSE GROUPS—contd.	Brought forward	Brucellosis (Undulant fever)	Bacillary dysentery		Other unspecified forms of	dysentery	Scarlet fever	Streptococcal sore throat	Erysipelas	Septicemia and pyæmia	Diphtheria	Whooping cough	Meningococcal infections	Plague	Leprosy	Tetanus	Anthrax	Acute poliomyelitis	ce	Late effects of acute polio-	acute inf	encephalitis	Smallpox	Measles	Carried forward
	Intermediate Detailed List. No. List No.			04	(b) 04	(c) 047, 048		17	18	19	20	A 21 055	22	23	24	25	26	27.	28	29 08	30			31 08	A 32 085	

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS APPENDIX VI—continued

	Out-Patients M	16 1,549	78 20	6 1		İ		997 395	3 1		possery		218 61		
ES	Ī	52 6,016	1 1	111	1 1	1		6 9	17 19 4	177	1	1	1 2		
Non-Expatriates	s Deaths	68	12		11		1 1	10	1 %	3		1			
JON-EX	In-Patients M	. 2	m	-	1 1	1		121	738	3	—	1	8		
Z		458	31	9		1		187	361		1	-	9		
	Jut-Patients M					1			14	,	I	1	1		
	Out-	23	10	-		1	1	6	0	1			1		
ATES	ths	;				l	1 1	1			1		1		
EXPATRIATES	Death		1		1,1	1		1	1		and the second s				
<u>H</u>	In-Patients				1 1	ł		—	10	4	n	1	1		
	In-P	22	12		, 11	1	12	6	1 %	27	1	1			
	DISEASES	CAUSE GROUPS—contd. Brought forward	Yellow fever Infectious hepatitis	Rabies Louse-borne epidemic typhus Flea-borne epidemic typhus	epidemic ty	Other and unspecified typhus	Vivax malaria (benign tertian) Malariæ malaria (quartan)	Falciparum malaria (malig-		of malaria Schistosomiasis vesical	(S. hæmatobium) Schistosomiasis int	(S. mansoni) Schistosomiasis pulmonary	4)	schistosomiasis	`
		Detailed List No.	091 092	094 100 101	104	102, 103 106–108	110	112	115	116, 117 123.0	123.1	123.2	123.3		
		Intermediate List. No.		35 36 (a) (b)			A 37 (a) (b)	(2)		(e) A 38 (a)	(q)		(<i>p</i>)		

			EXPATRIATES				NON-E	Non-Expatriates	IATES		
	DISEASES	tier	s Deaths	Out-Po	tients	In-Patients	tients	Deat	•	Jut-Patients	suts
		M. F.		M. F.	F.	M.	F.	M.	F.	M.	F.
Intermediate Detailed											
List. No. List No.	CAUSE GROUPS—contd.										
	Brought forward	61 10		84	11 1	1.052	584	127	77 19	,,37 8	8,903
A 39 125	Hydatid disease	-		1		1					1
(a)	Onchocerciasis					1	1	1		2	
<i>(b)</i>	Loiasis			-		-		1	1	-	1
(<u>0</u>)	Filariasis (bancrofti)		1		1	31	1	Į	1	57	12
	Other filariasis		1		-	12	1	-		20	1
A 41 129	Ankylostomiasis			1	1	10	10	-	i	37	29
	station) ar	10		4		40	18	-	-	68	17
	other cestode infestations										
130.	Ascariasis		1	Ì	 1	23	19	1	_ 2.2	2.200 2.	2.004
	Guinea worm (dracunculosis)	1	1	_	1	-	-1	1			
(d) 124, 128,	Other diseases due to hel-			4	3	6	9	-		735	583
	minths							1			
A 43 (a) 037	Bymphogranuloma venereum		1	_		14	_	-	1		54
(b) 038	Granuloma inguinale, venereal				1	12	2	-			71
(c) 039	Other and unspecified venereal				_	18	11			703	150
	diseases										
A 43 (d) 049	Food poisoning infection and	5 2	-		7	_	_			4	9
	intoxication		÷								
(e) 071	Relapsing fever		1	ļ	1	1	1	,		1	1
(f) 072	Leptospirosis icterohæmor-		1	1	i	1	1		1		1
	rhagica (Weil's disease)										
	Yaws		1	1		20	19	1	1 5,427		2,789
(4) 087	Chickenpox	-			7	32	3	1		_	20
	Dengue			-	1	1	1	-	1	1	
	Trachoma		1	1	1	33		i	1	47	38
	Carried forward	76 13		0.7	1 00	777	023	1 20		90 515 14	1757
	Callica for water			71		1/7,	6/0	671	80 23,	4	101

Š	Out-Patients	M. F.		L	29,515 14,767		-	12. 6	-	2. –		,1'56 638	139 1,186	421				,		•		ė.			,		,	 1		33,246 16,772
Non-Exfatriates	eaths	. F.			80	-	1		1			-	1 2									7		1		1		1		80 3
on-Ex		M		•	129	-	-											1	:		4							1		129
Z	In-Patients	F.			629	-	-	7	1			1		4						,	,			1						989
		M.		100	1,277	İ			1	-			-	15						i	,			1		-	,	 (1,294
	Jut-Patients	F.			70	-			1			7		n							6									30
	Out-Po	M.		, t	/.6		1	1	1	1		16		6.			6					ı		-				1		122
RIATES	ths	F.					1	1	I	1				,					٠		*			-		-				-
EXPATRL	Deaths	M.					-	1	-	1			1				ţ							-		1		1		
	tients	F.		,	13		1	-	1				1											1					Je	13
	In-Patients	M.		,	9/	1	1	1	-	1		4		-										1		1	3	1		82
	DISEASES		ed CALISE GROTIPS—contd.		Brought forward	Sandfly fever	Leishmaniasis	Trypanosomiasis gambiensis	-	Other and unspecified trypa-	nosomiasis	Dermatophytosis	Scabies	All other diseases classified as	infective and parasitic	•							*	Malignant neoplasm of buccal	d pharynx	Malignant neoplasm of	sns	Malignant neoplasm of stomach		Carried forward
			Intermediate Detailed List No. List No.	1		(k) 096.7	(1) 120	(m) 121 (a)	(q)					(p) 036, 054,	059	064, 070,	074, 086,	088, 089,	093, 096.1–	096.6, 096.8,	096.9, 122,	~	136-1	A'44 140-148		A 45 150		A 46 151		

83 33,295 16,810

122

15

84

Carried forward ...

	T HOSPITALS
APPENDIX VI—continued	AT GOVERNMENT
APPI	TREATED
	PATIENTS
	OF
	RETURN

				EXP	EXPATRIATES	S			Z	on-Ex	Non-Expatriates	ES		
		DISEASES	In-Patients M. F.	ients F.	Deatl M.	is Our F.	Deaths Out-Patients M. F. M. F.		In-Patients M.	nts F.	Deatl M.	is O F.	Deaths Out-Patients M. F. M. F.	ents F.
termediate List No.	Detailed List No.	CAUSE GROUPS—contd.						1					•	•
		Brought forward	82	13	1	l	122	30 1	1,294	989	129	80 3	33,246 16	16,772
A 47	152, 153	Malignant neoplasm of intes-			1		1			_	1			
	1	tine, except rectum	,											
A 48	154	Malignant neoplasm of rectum				1			1		1	1		
A 49	161	ary	-				1	1	-		1	1	-	1
A 30	107, 103	trachea, and of bronchus	-						_				-	
		and lung												
	170	Malignant neoplasm of breast	ļ		1		1			7		1	1	7
A 52	171	Malignant neoplasm of cervix	1	1	1	1	1	1	1	4	1		1	4
		uteil												
A 53	172-174	Malignant neoplasm of other		1			1			∞	1	7		∞
		and unspecified parts of												
A 54	177	Malignant neoplasm of pros-			1		1	1	3			1	ĸ	
		tate					•							
A 55	190, 191	Malignant neoplasm of skin		_	1				7		1		13	7
	196, 197	Malignant neoplasm of bone	1	1	1	1	1	1	2	2	1		2	9
A 57	155-160,	\geq		l	1	1	1		24	∞	14		27	10
	164, 165,													
	175, 176,													
	178 - 181,													
	192–195,													
	198, 199													

		tients	F.		16,810	-			1		69	m		 1		7	-	2	461				143		209	20			113			
	S	Out-Patients	M.		33,295	.			4		49	5		1	13	m	-	10	959		4		83		310	72			22			
	FRIATE	Deaths	F.		83	1			1			1		1	İ	1	1		11		1		-		2	1						
	N-EXPATRIATES	De	M.		144	1			7		7	-		1	-	1	1	1	23		1		1		10				7			
PITAL	Non	In-Patients	F.		715	1			1		59	1				_		7	71				12		49	2			4			
HOSPITAI		In-Pa	M.		1,329	1			4		27	7		1	10	7	1	9	61				∞		49	15			10			
MENT		tients	F.		31	1					7	ļ		1	1		1	1	7						4	m		,	m			
-continued GOVERNMENT		Out-Patients	M.		122	1			1		2			1	7	1	1	1	1		1		1		7	7			S			
	TES	ths	F.		İ						1	1		1	.	-		1	1				1		1	1						
OIX V	EXPATRIATES	Dea	M.		-	1						1		1	1	1	1	1	1				1		i	1			1			
APPENDIX V TREATED AT	EXI	In-Patients	F.		15	1			1		7	1		1	1	1	1	1					7		-							
		In-Pa	M.		84	1			1		9	1		1	4	-	1	1	1				_		_	7		ı	7			
RETURN OF PATIENTS		DISEASES		CAI	Brought forward	Leukæmia and aleukæmia	Lymphosarcoma and other	neoplasm of lymphatic and	hæmatopoietic system	Benign neoplasms and neo-	plasms of unspecified nature	Nontoxic goitre	Thyrotoxicosis with or with-	out goitre	Diabetes mellitus	Beriberi	Pellagra	Scurvy	Other deficiency states	Pernicious and other hyper-	chromic anæmias	Iron deficiency anæmias	(hypochromic)	Other specified and unspecified	anæmias	Asthma	~~	endocrine, metabolic and	blood diseases			
				te Detailed	List-No.	204	200-203,	205		210-239		250, 251	252		260	280	281	282	283-286	290		291		292, 293		241	240,242-	245, 253,	254, 270-	277, 287–	289, 294–	667
				Intermediate	List No.	A 58	A 59			A 60		A 61	A 62		A 63	A $64(a)$	$(\hat{\theta})$	(2)	(p)	A 65 (a)		<i>(q)</i>		<u></u>		A $66(a)$						

18,138

182 102 34,526

45 1,524 921

Carried forward

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS

	ts	F.		38 •	 ر	7	c	n n	2	7	O	7	0 5	70	V -	-	מע) v	,	2	c	7			94	2	
	atien	•		18,138								1	0,70	7		-	_ (7 -	1	292	2	617			6	19,412	
	Out-Patients	M	1	34,526	77	7	C	ე [_	t	1 4	1 010	1,010	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	102	271	339	100	692	003	070			130	37,763	
	22	H.	()	701	1			(1			l	l	1		İ	l				C	4			1	106	
	Non-Expatriates -Patients Death	M.	103	103	1			,	1	~	9	-	٦				Оучения				, 71	<u>†</u>			1	203	
IALD	Non-Exp In-Patients	F.	100	721		- -	C	40	1	4	+	۲ ر	י ר	-		-	- '	0 4		2	30	20			1	986	
IOOL	In	IM.	0	470,1	0 4	r	C	1 v)	4	-	0	35) (L	,		7	4		19	×	90				,713	
TILL	Out-Patients	Γ .	45	C F						1	İ		_	:	l	1	٠, ٧	,			9	>			İ	78 1	
TIATATATA	Out-F	. 141.	138	100	- v)	į	İ		1	!	İ	ν	,	1	22	9	<u>ک</u>		m	26	2			1	211	
	EXPATRIATES Deaths M F	7.	**************************************	ĺ			l	1		1	***************************************	İ	ı	1	1	***************************************	d years and the second	1			l				1		
4	EXPATRI Death	. 747		İ	1		İ	ĺ		ĺ	1	1	1	l	ĺ	l	1				1				1		
	In-Patients M		21	i	1		İ			1	1	I	l	I	i	m	, —	1			1					26	
	In-Pa	•	100		10		l			İ	***************************************	ĺ	7	1	1	3	1	İ		1	5					121	
			ntd.	•	Psychoneurosis and disorders		•	affecting	_	Nonmeningococcal meningitis	:	•	eye		•	•	tis	sases		ondi-	the	sense			: 1	:	
			CAUSE GROUPS—contd. Brought forward		disor			affec	system	nenir			Inflammatory diseases of eye				Otitis media and mastoiditis	Other inflammatory diseases		All other diseases and conditions of eye	diseases of the					<u>p</u>	
	SES		AUSE GROUPS—c Brought forward	•	and		y:	ns	us sy	cal n	is	•	iseas	•	•	•	mas	tory		es aı	ases	system and			•	Carried forward	
	Diseases		GR Ight)	osis	of personality	Mental deficiency	lesions	central nervous	ococ	Multiple sclerosis		ry d	•		na	and	mms		iseas ye	dise	syste			Rheumatic fever	ed fo	
	had		AUSE Brou	ses	nenr	rson	defi		aln	ning	le sc	y.	mato	ct	ma	xter	nedia	infla	Į.	of e	her		18		atic	Carri	
			O	Psychoses	ycho	of pe	ental	Vascular	centr	nme	ultip	Epilepsy	flami	Cataract	Glaucoma	Otitis externa	itis n	her	of ear	ll other dise tions of eye	All other	nervous	organs		enm		
		q						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \																			
		Detailed	List No	300-309	310-324,	326	325	330-334		340	345	353	370-379	385	387	390	391-393	394		380–384, 386, 388, 389	341, 344	350-352,	554-357,	95-398	100-402		
				` '										. ,				(c)		(a) 33 33 33 33 33 33 33 33 33 33 33 33 33	(<i>b</i>) 3		.) (r) (L)	4		
		Intermediate	List No	29				70	Ţ					75	9/	11		11		78	ت				79		
		Inte	7	A	A		Y	A			K	A	V	∢.	A	Y		A		A					Y		

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS

	tients F.	19,412	11	11	90	4	82	478	90 83 20	668	11		22,195
	Out-Patients M. F.	37,763	23	38	232	4	23 473	831	174 92 75	1,060 2,714	7	7	43,513
TES	F.	106	1	7	6		۱۳		177	7 -	1	- 1	161 4
PATRIA	Deaths M.	203		4	31	ļ	3	1	0 4 4	7	1		284
Non-Expatriates	In-Patients M. F.	986	3	4	33	2	1 25	10	82 69 19	52 36	1		1,323
Z -1	In-Pa M.	,713	7	10	93	3	13	18	139	40	1		2,281
	ients F.	78 1	1	-	m		150	10	w	1 60	1		103
	Out-Patients M. F.	211	1		7	,	13	24	w -	3 12	4		275
ES	hs F.	į	1	1	-			1			1		
EXPATRIAT	Death M.	1	1	—	-	1		1	-		1		m
EXP	ients F.	26		-			1 60	7	-	-	1		36
	In-Patients M. F.	121		3	6	1	11	6	40-0	1 10			158
	DISEASES	CAUSE GROUPS—contd.	Chronic rheumatic heart	disease Arteriosclerotic and degenera-	tive heart disease Other diseases of heart Hypertension with heart	disease Hypertension without mention	of heart Diseases of arteries Other diseases of circulatory	system Acute upper respiratory infec-	Influenza Lobar pneumonia Broncho pneumonia	unspecified pneumonia Acute bronchitis Bronchitis, chronic and un-		adenoids	Carried forward
		Detailed List No.	410-416	420-422	430-434	444-447	450-456	470-475	480–483 490 491	500 501, 502	510		
		Intermediate List No.	A 80	A 81	83 83	8	85 86	A 87	88 88 06 30	91 92 93			

385 131 3,212 1,497 344 175 55,269 28,194

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46

227

Carried forward

	tients	F.	2,196	3	10	2	975		535	110) 	C	0	117	12	30		332)	897		=	Ć	7 (e 6	7,347				
	Out-Patients	M.	43,513 22,196	∞	30	3	2.096		866	158)	9	7	318	27	1 261	1016	379		1,449		12			7 5	4,905				
ATES	ths	F.	161	7	1		2						İ	j	-	((()			7			-	-		ე ა				
Non-Expatriates	Deaths	M.	284	3	1	ļ	4			}			1	ļ	-	22		9)	7			u	O		71			,	
Non-E	ients	F.	1,323	3	∞)	21			7		2	1	-	-	22		13	i I	30		7	c	٦,	ب ا	4 0				
	In-Patients	M.	2,281	∞	24	;	53		9	· ∞		7	7	9	24	598)	16		99		9	1	77	T 0	60				
	suts		103	1	1		7		1			1		7	7	1				6		-		-	⊣ ų	O				
	Out-Patients	M.	275	1	1		20		7	∞			3	3	10	3		7		24				İ	6	7.3				
TES		F.		I	1	1			1	Ī		İ		1				1								1				
EXPATRIATES	Deal	M.	m	İ	1								_	-		1								1	-	7				
EX	ents	F.	36							Ī					n			7					į	-	٦ ,	1				
	In-Patients	M.	158			ł	4		m	2			m	m	19	2		4		6			-	⊣ '	2	7				
	Diseases	CAUSE GROUPS—contd.		Empyema and abscess of lung	Pleurisy	coniosis	disease		Dental caries	All other diseases of teeth and	supporting structures	Ulcer of stomach	Ulcer of duodenum	Gastritis and duodenitis		Intestinal obstruction and	hernia	Gastro-enteritis and colitis	between 4 weeks and 2 years	Gastro enteritis and colitis,	ages 2 years and over	Chronic enteritis and ulcera-	tive colitis Cirrhosis of liver	Cholelithinging ond aboleometitie	Other diseases of directive					
		Intermediate Detailed	List No.	95	96		(b) 511–517,	520–522, 524–527	530	(b) 531–535		A 99 540	A 100 541	4)	\sim	A 103 560, 561,	570	A 104 (a) 571.0		(b)571.1		(c) 572		106	A 107 536-539		545, 573-	580, 582,	583, 586,	786

	ts F.		94	ا ع	13		18	78	4	C !	47					38		40		∞	1	154
	atien		28,194						, ($1, \frac{1}{2}$	∞ ∞											30,954
	Out-Patients M. F.		55,269	31	20	4	7 -		3/1		914											56,618
res			73 5		1		1	1	l	'	6					4		2		7		197 5
PATRIA'	Deaths M. F		344 1	12	7			-		1	14					1		1		1		365
Non-Expatriates	nts F.		,497	22	48		6	77	8	87	138					27		78		70		1,866
Z	In-Patients M. F			0 3	6	4	7,	— (٧	1	5					1		1		1		3,455 1
	I_{Λ}		3,212			•			9	1	145					1		1		1		
	ents F.		131		-		1 -	—	1	_	70					1				ļ		161
	out-Patients M. F		385	-	1			1	1	1						1		1		l		398
res	ths C F.				1	1	1		1	1	1					1		I				
EXPATRIAT	Dean M.		9	11	1	l	1		1	1	1					1		ł		l		9
Ex	ients F.		46	11		_			1	-	4					1		1		l		63
	In-Patients M. F.		227		-	7				1	7					-		1		1	, et	242
	Diseases	CAUSE GROUPS—contd.	Brought forward	Acute nephritis Chronic, other and unspecified				, ,		Disorders of menstruation	A	genito-urinary system				Sensis of pregnancy, child		Toxæmias of pregancy and		H		Carried forward
		Detailed List No.		590 591–594	009	602, 604	610	620, 621	613	634	601, 603,	605-609,	611, 612,	614-617,	622-633,	640-641.	681, 682, 684	642, 652,	685, 686	643, 644	7/0-0/0	
		Intermediate Detailed List No. List No.		A 108 A 109		111	A 112	113	114(a)		(2)					A 115		A 116		A 117		

				o i															
	Out-Patients	F.	30,954	142	26 156		348	1.589	100	1.572		36	2 616	2,010,7	1,36/	33	1	7	39,337
	Out-Pa	M.	56,618				İ	2,727	100	3,665		0/			1,713	101	1	1	70,281
	rriates Deaths	F.	197	1	13		1	~		1 1		1 1	C		- ,	_	-	1	221 70
	XPATRI	Ä.	365				1	∞	c	4			1	-	, -	1	1	-	376
ν	0 3	F.	1,866	150	29 426		1,155	84	00	19	16	10	122	1 9) t	_	1		3,945
HOSPITALS	Non In-Patients	M.	3,455				-	169	70	41	8	70	161	71		4		1	3,990 3,
	nts		161 3	_	12		2	37	₹	t 71			1	×)			1	217 3,
OIX VI—continued GOVERNMENT	Out-Patients	M.	398	1	1 1		1	110	CC	. =			-	17		4	1	ł	544
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		. <u>171</u> .	9	1			1	1	1	1		1	1	1					9
APPENDIX ED AT GC	Exp ents E	L.	63	_	m		2	11	4	.	1	1			-				91
APPENI TREATED AT	In-Patients M	. 747	242		1		1	33	-	-	1	1	1	7					279
																			. 2
RETURN OF PATIENTS	DISEASES	CAUSE GROUPS—contd.	Brought forward Abortion without mention of	sepsis or toxæmia	Abortion with sepsis Other complications of preg- nancy, childbirth and the	puerperium	Delivery without complica-	Infections of skin and sub-	Arthritis and spondylitis	Muscular rheumatism and	Osteomyelitis and periostitis		O	ing tropical ulcer) All other diseases of skin	All other diseases of museur-		Spina bifida and meningocele Congenital malformations of		Carried forward
		ate Detailed. List No.	65	Ĭ,	A 119 651 A 120 (a) 645–649, 673–680,	683, 687– 689	099 (q)	869-069	720–725	726, 727	730	737, 745-	A 126 (a) 715	(b) 700–714,	716) 731–736.	738-744	754		
		Intermediate List No.	A 118	-	A 119 A 120 (a		7)	A 121	A 122	A 123	A 124	A 125	A 126 (a	9)	<i>o</i>)	5	A 128		

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS APPENDIX VI—continued

EXPARRATES Non-Exparients Deaths Out-Patients Deaths Out-Patients Deaths Out-Patients Deaths Out-Patients Deaths Out-Patients Deaths Out-Patients Out-Patien		ents F.	39,337	9	8	1	9		∝	27		56	113	305			
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Exparrial Text Expa		In-M.	066,	—		1		33	∝	P		prosent(37	112			
EXPATRIATES M. F. M. F. BROUPS—contd. ught forward 279 91 6 1 congenital mal- ns in neonatorum — — — tions of newborn — — — disease of newborn — — — diseases peculiar to — — — — fancy and immandration of — — — — anknown origin 15 3 — — — thout mention of — — — — — anknown origin 15 3 — — — thout med for 2 1 — — — thefined causes of 17 10 — — — surknown origin 15 3 — — — thefined causes of 17 10 — — — surknown origin 15 3 — — — thefined causes of 17 10 — — —		tients F.		1		1	1	1		1		1	6	16			
EXPATRIATES M. F. M. F. BROUPS—contd. ught forward 279 91 6 1 congenital mal- ns es — — — — sphyxia and atelec- tions of newborn — — — — disease of newborn — — — — disease of newborn — — — — diseases peculiar to — — — — — funcy and immandualified — — — — — nqualified — — — — — — thout mention of — — — — — sunknown origin 15 3 — — — n, without need for 2 1 — — — ledical care Il-defined causes of 17 10 — — —		out-Pa M.	544	J		1	1	1		l		1	4 -	29			
EXPAT BROUPS—contd. ught forward 279 91 congenital mal- ns congenital mal- ns sphyxia and atelec- of newborn (under ——— tions of newborn ———— tions of newborn ———— disease of newborn ————— disease of newborn —————————————————————————————————	<i>y</i>	S 6.	-	1			1	1				1		1			
JISEASES JIN-Patie JROUPS—contd. ught forward 279 9 g. congenital mal- ns es 279 9 g. sphyxia and atelec- of newborn (under ————————————————————————————————————	TRIATE	Deat A.	9	1	1 1	1	1	1				1]				
JISEASES JIN-Patie JROUPS—contd. ught forward 279 9 g. congenital mal- ns es 279 9 g. sphyxia and atelec- of newborn (under ————————————————————————————————————	FxpA.	uts N			1 1			'		,		,					
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		DISEASES	d.	congenital	Birth injuries Post-natal asphyxia and atelec-	tasis Diarrhæa of newborn (under	4 weeks) ohthalmia neonatorum	Other infections of newborn	Hæmolytic disease of newborn	early infancy	early infancy and imma-	turity, unqualified Senility without mention of	Pyrexia of unknown origin	further medical care	morbidity		
			Detaile List No	752, 755–	761					,1,1,			∞	787.	1-788.	795	
Detailed List No. 752, 755- 761 771, 771, 776 9,789- 795				750,	760,) 764	3765	763,	770	772,	, , ,	794	788.	087 (788.	792,	
			Intermediate List No.	A 129	A 130	A 132 (a) 764	<i>(</i> 9)	ی	A 133	124	100	A 136	A 137 (a	ಲ್ಲಿ ಲಿ			

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS

"E" CODE

ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSE)

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	atieni		39,922	86		,	1.408	35	· —	ı	· ·	22		13	.			16		48			41,615
`	Out-Patients	M.	71,376	294	84	æ	3.448	578	59	,	(86		51	-			132		59			76,171
ATES	Deaths	F.	230	n				'		1													235 7
Non-Expatriates		M.	389	∞			2	-	'					ν.	1					1			409
Non-E	In-Patients	F.	4,140	16	4	3	39		· ∞		t.	CI		4	1			1		-			,231
	In-F	M.	4,162 4	57	12	7	172	16	22		ţ	1/		38	1			7		10			4,510 4,23
	Out-Patients	F.	243 4	7	1		15	1			c	7		1	l			l					263 4
	Out-P	M.	588	5	-		28		7					1	1					4			679
res	sths	F.				1		1	1					1	1								
EXPATRIATES	Deaths	M.	9			1		1	1						1					1			9
Exi	tients	F.	105			1	6				-	-			1					-			116
	In-Patients	M.	313	33			22	1	-		-							m					345 116
		UPS	forward	cidents	accidents	ning	· ·	by machinery	by fire and	combustible		oy not sub-	iation	by firearm	ning and sub-			ering eye and	°u.	ntering other			rward
	DISEASES	CAUSE GROUPS	Brought forward	Motor vehicle accidents	Other transport accidents	Accidental poisoning	Accidental falls	Accident caused by machinery	Accident caused by fire and	explosion of combustible	material Accident consect	Stance corresive liquid	steam and radiation	Accident caused by firearm	Accidental drowning and sub-	mersion		Foreign body entering eye and	adnexa	Foreign body entering other	ornfice		Carried forward
		te Detailed List No.		, ,			•	,	7		E017 E018	7, 12716			E929			E920		((b) E923			
		Intermediate List No.		AE 138		140					WE TAA	++1:32		AE 145	AE 146	,	AE 147	(a)		(9)			

APPENDIX VI—continued

		ients F	•	41,615	33		103	1,153			18		1		42,922
		Out-Patients M F		76,171 4			217	4,445 1		-	19		1		80,953 49
	Non-Expatriates	Deaths C	•	235 76	1			7		1	1		-		237 8
		Dea		409	3			12		1	-		-		424
	Non-E	ients F	•	1,231	7		12	104			7				4,351
	7 -1	In-Patients M		263 4,510 4,231	28		37	314		ł	7		1		273 4,891
		ents	, (263 4,	7		3	2		1	1				273
pa		Out-Patients M. F.		679	4		-	18		1	1				652
"E" CODE—continued	res				I			1		1			1		—
DE-c	EXPATRIATES	In-Patients Deaths 1. F. M. F.		9	I			1		1			-		9
c)		tients F.		116						I	1		1		119
<i>T</i> "		In-Pa M.		345			1	co			1		1		348 119
	o h		S_contd.	rward	Accidents caused by bites and	stings of venemous animals and insects	Other accidents caused by	All other accidental causes		Suicide and self inflicted injury	Homicide and injury purposely inflicted by other persons		Injury resulting from opera-	0	TOTAL
	general party party party (Tex. (Tex. (Tex. (Tex. (Tex. (Tex.)	DISEASES	CAUSE GROUPS	Brought forward	aused t	venemo	idents	ccident		selfinf	nd injur by oth	var)	llting fi	North Park	To
	Seen 1 23 Seen 1 2 1 2 2 2 2 2 3 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	to to the start of		Bro	Accidents c	stings of	Other acc	All other a		Suicide and	Homicide a inflicted	(not in v	Injury resu	COLONIA WALL TO SOLO O	*
			tiate Detailed o. List No.		(c) E927		(d) E928	E910, E911, E913-E915	E921–E922 E924–E926 E930–E965	E970-E979	E980-E985		E990-E999		
			Intermediate List No.		(2)		(<i>p</i>)	(e)		AE 148			AE 150		

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS APPENDIX VI—continued

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\	atieni	,		34.8	29	58		93(1,158	47	74	16 322		3,000
INJURY	Out-Patients	M.	27	271	1,444	261	4	2,877 3,045	143	162	31,049		9,577
OF 11	RIATES Deaths	F.	ω		1						1 2		7
	Non-Expatriates atients Deaths	M.	9 4	m	1	3	4	7	1	1	0 0		35
(NATURE	Non-E In-Patients	Γ .	4 0	38	6	12		33		22	53		211
ENCE	In-Pa	. 141	22	163	19	37	6	155	11	25	12 129		729
VIOLENCE	tients			4	4	į	1	× 1	7	7	7		30
AND	Out-Patients		12	97	6			13	4	7	mv		64
INGS	ATES aths	•					1						
"N" CODE S, POISON	EXPATRIA' S Dea	. 747			1				1				1
" <i>N</i> ". S, PC	Extients	•	-	m		1	1	m 7	_		- 7		14
IDENT	E In-Patients M F	•	- %	∞	4	-		7	m	 -			35
"N" CODE ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONI	DISEASES	ed CAUSE GROUPS			Sprains and strains of joints and adjacent muscle	Head injury (excluding fracture)	In	La	skin surface Effects of foreign body entering through orifice	B	All other and unsp	effects of external causes	TOTAL
ALTERNATIVE		Intermediate Detailed List No. List No.	AN 138 N800-N804 AN 139 N805-N809	140 141 3	AN 142 N840-N848	AN 143 N850-N856	AN 144 N860-N869	AN 145 N870-N908 AN 146 N910-N929	AN 147 N930-N936		AN 150 N950-N959	666NI-006NI	

G.P. 5417/53/450/11.53.